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\* \* \* \* \* \* \* \* \* \* \* \* \* \* \* Welcome to STN International \* \* \* \* \* \* \* \* \* \* \* \* \* \* \*

NEWS 1 Web Page for STN Seminar Schedule - N. America  
NEWS 2 JUL 02 LMEDLINE coverage updated  
NEWS 3 JUL 02 SCISEARCH enhanced with complete author names  
NEWS 4 JUL 02 CHEMCATS accession numbers revised  
NEWS 5 JUL 02 CA/Cplus enhanced with utility model patents from China  
NEWS 6 JUL 16 Cplus enhanced with French and German abstracts  
NEWS 7 JUL 18 CA/Cplus patent coverage enhanced  
NEWS 8 JUL 26 USPATFULL/USPAT2 enhanced with IPC reclassification  
NEWS 9 JUL 30 USGENE now available on STN  
NEWS 10 AUG 06 CAS REGISTRY enhanced with new experimental property tags  
NEWS 11 AUG 06 FSTA enhanced with new thesaurus edition  
NEWS 12 AUG 13 CA/Cplus enhanced with additional kind codes for granted patents  
NEWS 13 AUG 20 CA/Cplus enhanced with CAS indexing in pre-1907 records  
NEWS 14 AUG 27 Full-text patent databases enhanced with predefined patent family display formats from INPADOCDB  
NEWS 15 AUG 27 USPATOLD now available on STN  
NEWS 16 AUG 28 CAS REGISTRY enhanced with additional experimental spectral property data  
NEWS 17 SEP 07 STN AnaVist, Version 2.0, now available with Derwent World Patents Index  
NEWS 18 SEP 13 FORIS renamed to SOFIS  
NEWS 19 SEP 13 INPADOCDB enhanced with monthly SDI frequency  
NEWS 20 SEP 17 CA/Cplus enhanced with printed CA page images from 1967-1998  
NEWS 21 SEP 17 Cplus coverage extended to include traditional medicine patents  
NEWS 22 SEP 24 EMBASE, EMBAL, and LEMBASE reloaded with enhancements  
NEWS 23 OCT 02 CA/Cplus enhanced with pre-1907 records from Chemisches Zentralblatt  
NEWS 24 OCT 19 BEILSTEIN updated with new compounds  
NEWS 25 NOV 15 Derwent Indian patent publication number format enhanced  
NEWS 26 NOV 19 WPIX enhanced with XML display format

NEWS EXPRESS 19 SEPTEMBER 2007: CURRENT WINDOWS VERSION IS V8.2, CURRENT MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP), AND CURRENT DISCOVER FILE IS DATED 19 SEPTEMBER 2007.

NEWS HOURS STN Operating Hours Plus Help Desk Availability  
NEWS LOGIN Welcome Banner and News Items  
NEWS IPC8 For general information regarding STN implementation of IPC 8

Enter NEWS followed by the item number or name to see news on that specific topic.

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FILE 'HOME' ENTERED AT 09:07:27 ON 28 NOV 2007

=> file reg  
COST IN U.S. DOLLARS

	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.21	0.21

FILE 'REGISTRY' ENTERED AT 09:07:44 ON 28 NOV 2007  
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.  
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.  
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Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 27 NOV 2007 HIGHEST RN 956075-61-9  
DICTIONARY FILE UPDATES: 27 NOV 2007 HIGHEST RN 956075-61-9

New CAS Information Use Policies. enter HELP USAGE TERMS for details.

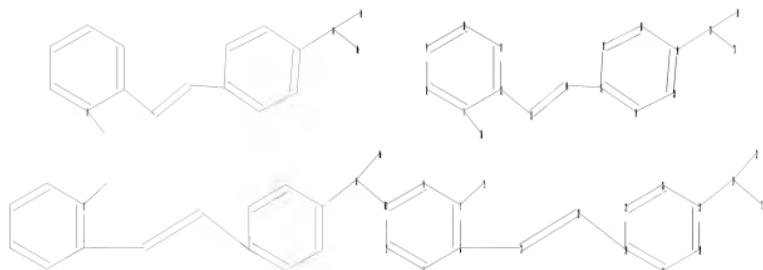
TSCA INFORMATION NOW CURRENT THROUGH June 29, 2007

Please note that search-term pricing does apply when conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

<http://www.cas.org/support/stngen/stndoc/properties.html>

=>  
Uploading C:\Program Files\Stnexp\Queries\10814428c.str



chain nodes :  
 13 14 21 22 29 30 31 32 33 34 35 36  
 ring nodes :  
 1 2 3 4 5 6 7 8 9 10 11 12 15 16 17 18 19 20 23 24 25 26 27  
 28  
 chain bonds :  
 5-35 6-21 7-36 12-13 13-14 14-16 19-30 21-22 22-24 27-29 29-31 29-32  
 30-33 30-34  
 ring bonds :  
 1-2 1-6 2-3 3-4 4-5 5-6 7-8 7-12 8-9 9-10 10-11 11-12 15-16 15-20  
 16-17 17-18 18-19 19-20 23-24 23-28 24-25 25-26 26-27 27-28  
 exact/norm bonds :  
 5-35 6-21 7-36 12-13 13-14 14-16 19-30 21-22 22-24 27-29  
 exact bonds :  
 29-31 29-32 30-33 30-34  
 normalized bonds :  
 1-2 1-6 2-3 3-4 4-5 5-6 7-8 7-12 8-9 9-10 10-11 11-12 15-16 15-20  
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Match level :  
 1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom  
 11:Atom 12:Atom 13:CLASS 14:CLASS 15:Atom 16:Atom 17:Atom 18:Atom 19:Atom  
 20:Atom 21:CLASS 22:CLASS 23:Atom 24:Atom 25:Atom 26:Atom 27:Atom 28:Atom  
 29:CLASS 30:CLASS 31:CLASS 32:CLASS 33:CLASS 34:CLASS 35:CLASS 36:CLASS

L1        STRUCTURE UPLOADED

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 SAMPLE SCREEN SEARCH COMPLETED -                      7 TO ITERATE

100.0% PROCESSED                  7 ITERATIONS

1 ANSWERS

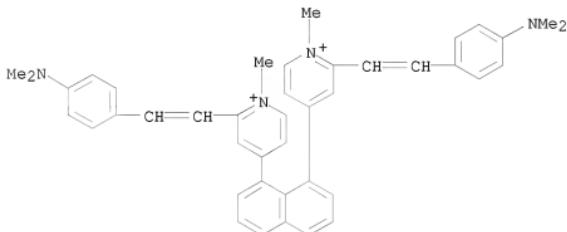
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FULL FILE PROJECTIONS: ONLINE \*\*COMPLETE\*\*  
 BATCH \*\*COMPLETE\*\*  
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 PROJECTED ANSWERS: 1 TO 80

L2 1 SEA SSS SAM L1

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L2 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2007 ACS on STN  
 RN 188821-10-5 REGISTRY  
 ED Entered STN: 06 May 1997  
 CN Pyridinium, 4,4'-(1,8-naphthalenediyl)bis[2-[2-[4-(dimethylamino)phenyl]ethenyl]-1-methyl- (CA INDEX NAME)  
 MF C42 H42 N4  
 CI COM  
 SR CA



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100.0% PROCESSED 135 ITERATIONS  
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44 ANSWERS

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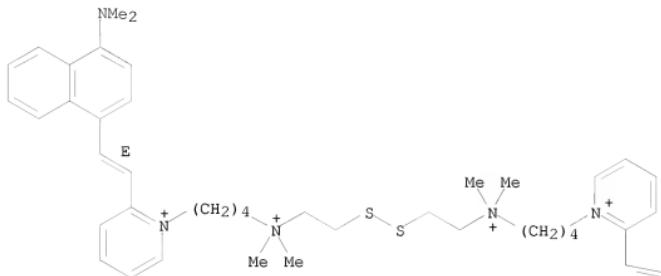
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L3 ANSWER 1 OF 44 REGISTRY COPYRIGHT 2007 ACS on STN  
 RN 951260-27-8 REGISTRY  
 ED Entered STN: 23 Oct 2007  
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 SR CA  
 LC STN Files: CA, CAPLUS

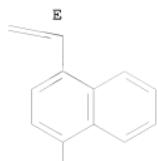
CRN (950782-66-8)

Double bond geometry as shown.

PAGE 1-A



PAGE 1-B



PAGE 2-A

● 4 Br<sup>-</sup>

PAGE 2-B

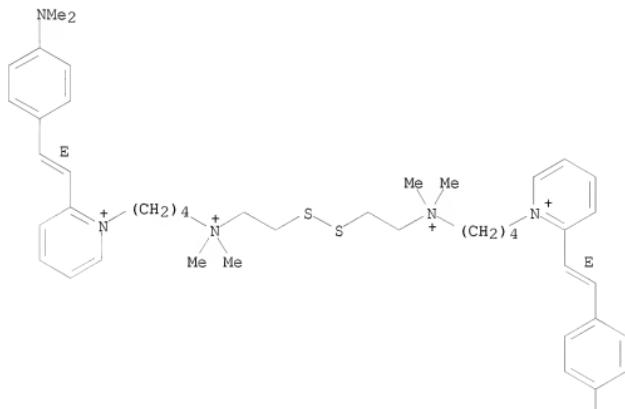
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1 REFERENCES IN FILE CA (1907 TO DATE)  
 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L3 ANSWER 2 OF 44 REGISTRY COPYRIGHT 2007 ACS on STN  
 RN 951163-30-7 REGISTRY  
 ED Entered STN: 22 Oct 2007  
 CN INDEX NAME NOT YET ASSIGNED  
 FS STEREOSEARCH  
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 LC STN Files: CA, CAPLUS  
 CRN (950782-65-7)

Double bond geometry as shown.

PAGE 1-A



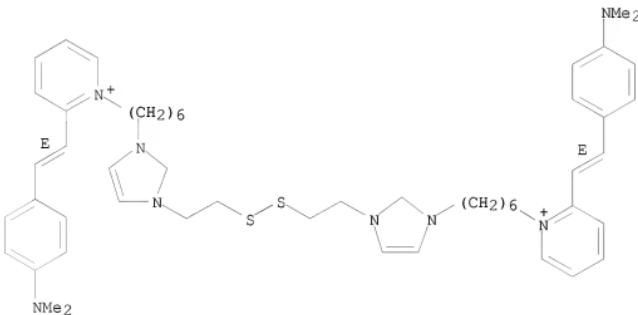
PAGE 2-A

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NMe<sub>2</sub>● 4 Br<sup>-</sup>

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L3 ANSWER 3 OF 44 REGISTRY COPYRIGHT 2007 ACS on STN  
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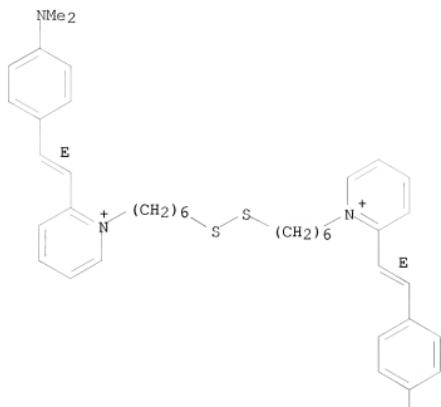
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 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

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 RN 951133-37-2 REGISTRY  
 ED Entered STN: 22 Oct 2007  
 CN Pyridinium, 1,1'-(dithiodi-6,1-hexanediyl)bis[2-[(1E)-2-[4-(dimethylamino)phenyl]ethenyl]-, bromide chloride (1:1:1) (CA INDEX NAME)

FS STEREOSEARCH  
 MF C42 H56 N4 S2 . Br . Cl  
 SR CA  
 LC STN Files: CA, CAPLUS  
 CRN (950782-60-2)

Double bond geometry as shown.

PAGE 1-A



PAGE 2-A

|  
NMe2

● Br<sup>-</sup>

● Cl<sup>-</sup>

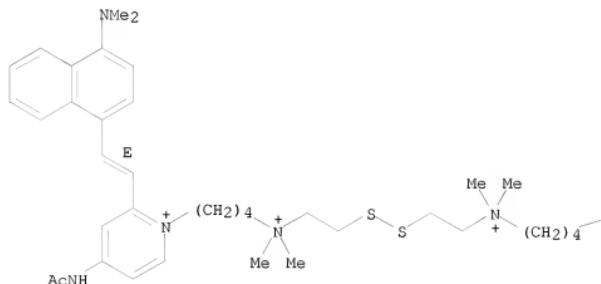
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L3 ANSWER 5 OF 44 REGISTRY COPYRIGHT 2007 ACS on STN  
 RN 950782-67-9 REGISTRY  
 ED Entered STN: 16 Oct 2007

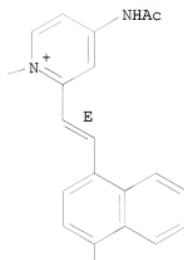
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Double bond geometry as shown.

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PAGE 1-B



PAGE 2-B

NMe<sub>2</sub>

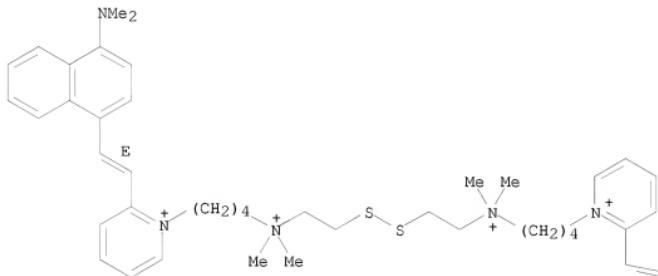
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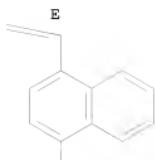
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 LC STN Files: CA, CAPLUS

Double bond geometry as shown.

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PAGE 1-B



PAGE 2-B

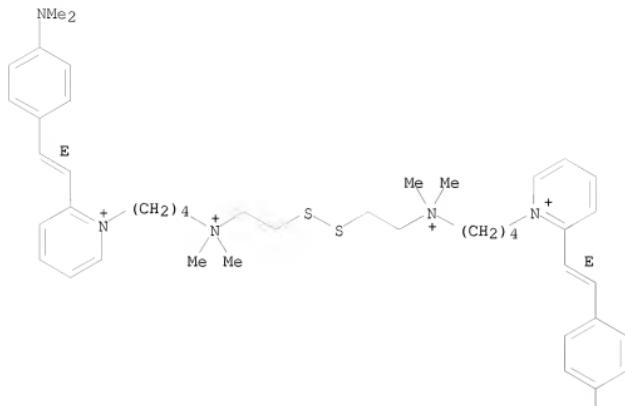
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L3 ANSWER 7 OF 44 REGISTRY COPYRIGHT 2007 ACS on STN  
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ED Entered STN: 16 Oct 2007  
CN INDEX NAME NOT YET ASSIGNED  
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SR CA  
LC STN Files: CA, CAPLUS

Double bond geometry as shown.

PAGE 1-A



PAGE 2-A

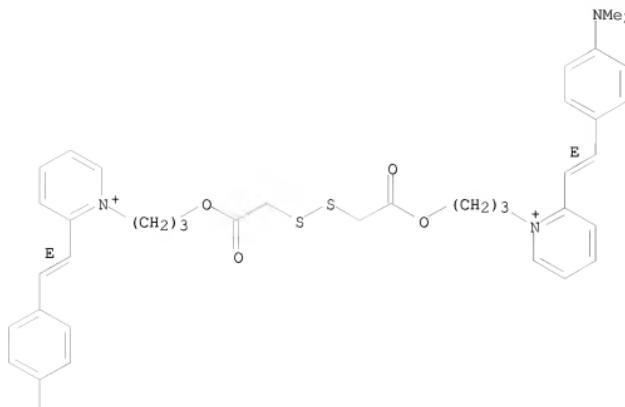
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L3 ANSWER 8 OF 44 REGISTRY COPYRIGHT 2007 ACS on STN  
 RN 950782-64-6 REGISTRY  
 ED Entered STN: 16 Oct 2007  
 CN Pyridinium, 1,1'-(dithiobis[(1-oxo-2,1-ethanediyl)oxy-3,1-propanediyl])bis[2-[(1E)-2-[4-(dimethylamino)phenyl]ethenyl]- (CA INDEX NAME)  
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 SR CA  
 LC STN Files: CA, CAPLUS

Double bond geometry as shown.

PAGE 1-A



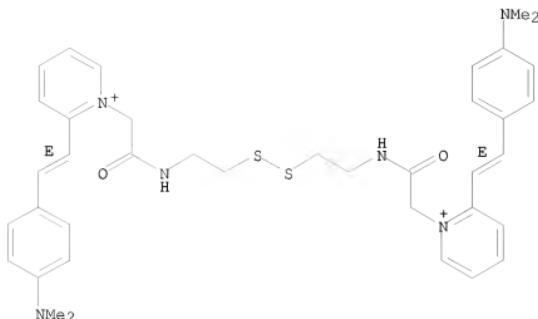
PAGE 2-A

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 2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L3 ANSWER 9 OF 44 REGISTRY COPYRIGHT 2007 ACS on STN  
 RN 950782-62-4 REGISTRY  
 ED Entered STN: 16 Oct 2007  
 CN Pyridinium, 2-[(1E)-2-[4-(dimethylamino)phenyl]ethenyl]-1-[2-[[2-[(2-[(1E)-2-[4-(dimethylamino)phenyl]ethenyl]pyridinio]acetyl]amino]ethyl]methiolethyl]amino]-2-oxoethyl]-(CA INDEX NAME)  
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 LC STN Files: CA, CAPLUS

Double bond geometry as shown.

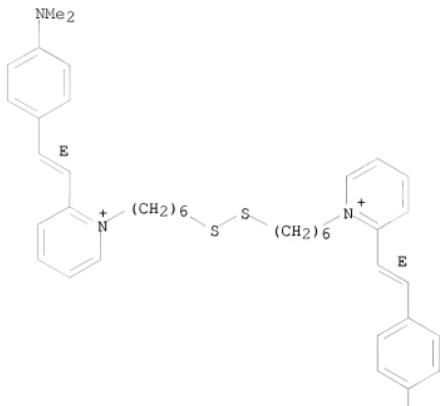


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RN 950782-60-2 REGISTRY  
ED Entered STN: 16 Oct 2007  
CN INDEX NAME NOT YET ASSIGNED  
FS STEREOSEARCH  
MF C42 H56 N4 S2  
CI COM  
SR CA  
LC STN Files: CA, CAPLUS

Double bond geometry as shown.

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PAGE 2-A

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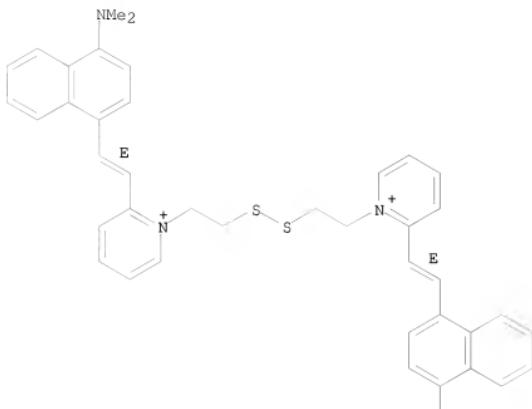
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L3 ANSWER 11 OF 44 REGISTRY COPYRIGHT 2007 ACS on STN  
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 LC STN Files: CA, CAPLUS

Double bond geometry as shown.

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PAGE 2-A

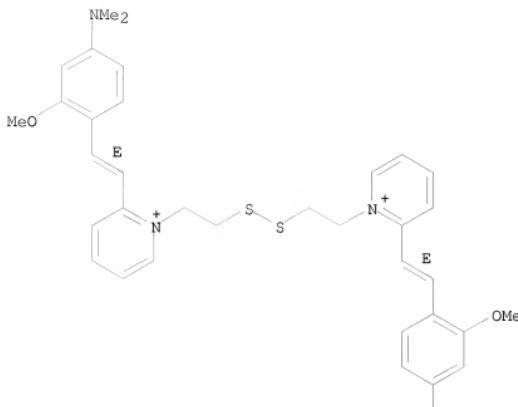
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L3 ANSWER 12 OF 44 REGISTRY COPYRIGHT 2007 ACS on STN  
 RN 950782-54-4 REGISTRY  
 ED Entered STN: 16 Oct 2007  
 CN INDEX NAME NOT YET ASSIGNED  
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 LC STN Files: CA, CAPLUS

Double bond geometry as shown.

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PAGE 2-A

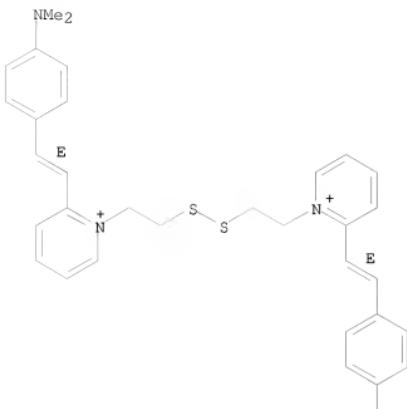
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L3 ANSWER 13 OF 44 REGISTRY COPYRIGHT 2007 ACS on STN  
 RN 950782-50-0 REGISTRY  
 ED Entered STN: 16 Oct 2007  
 CN INDEX NAME NOT YET ASSIGNED  
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 LC STN Files: CA, CAPLUS

Double bond geometry as shown.

PAGE 1-A



PAGE 2-A

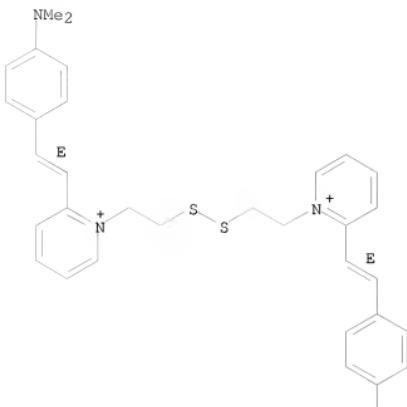
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L3 ANSWER 14 OF 44 REGISTRY COPYRIGHT 2007 ACS on STN  
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 CN INDEX NAME NOT YET ASSIGNED  
 FS STEREOSEARCH  
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 LC STN Files: CA, CAPLUS  
 CRN (950782-50-0)

Double bond geometry as shown.

PAGE 1-A

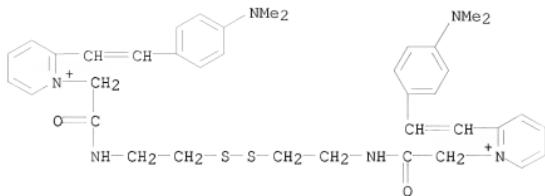


PAGE 2-A

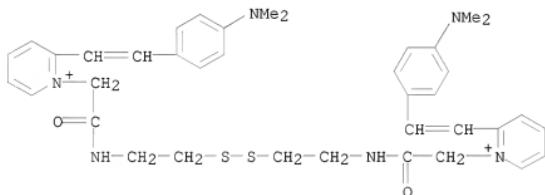
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NMe<sub>2</sub>● 2 Br<sup>-</sup>

3 REFERENCES IN FILE CA (1907 TO DATE)  
 3 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L3 ANSWER 15 OF 44 REGISTRY COPYRIGHT 2007 ACS on STN  
 RN 911284-61-2 REGISTRY  
 ED Entered STN: 25 Oct 2006  
 CN Pyridinium, 1,1'-[dithiobis[2,1-ethanediyl]imino(2-oxo-2,1-ethanediyl)]bis[2-[2-[4-(dimethylamino)phenyl]ethenyl]- (9CI) (CA INDEX NAME)  
 MF C38 H46 N6 O2 S2  
 CI COM  
 SR CA



L3 ANSWER 16 OF 44 REGISTRY COPYRIGHT 2007 ACS on STN  
 RN 911223-14-8 REGISTRY  
 ED Entered STN: 25 Oct 2006  
 CN Pyridinium, 1,1'-(dithiobis[2,1-ethanediylimino(2-oxo-2,1-ethanediyl)])bis[2-[2-[4-(dimethylamino)phenyl]ethenyl]-, bromide (1:2)  
 (CA INDEX NAME)  
 OTHER CA INDEX NAMES:  
 CN Pyridinium, 1,1'-(dithiobis[2,1-ethanediylimino(2-oxo-2,1-ethanediyl)])bis[2-[2-[4-(dimethylamino)phenyl]ethenyl]-, dibromide (9CI)  
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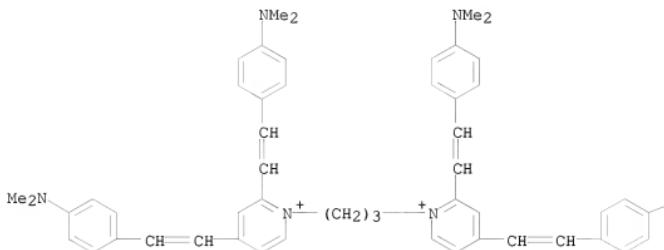
●2 Br<sup>-</sup>

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L3 ANSWER 17 OF 44 REGISTRY COPYRIGHT 2007 ACS on STN  
 RN 857151-15-6 REGISTRY  
 ED Entered STN: 27 Jul 2005  
 CN Pyridinium, 1,1'-trimethylenebis[2,4-bis(p-dimethylaminostyryl)- (5CI)  
 (CA INDEX NAME)

MF C53 H60 N6  
 CI COM  
 SR CA

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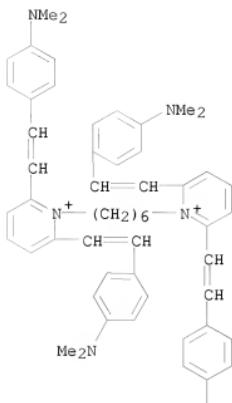


PAGE 1-B

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 ED Entered STN: 27 Jul 2005  
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 CI COM  
 SR CA

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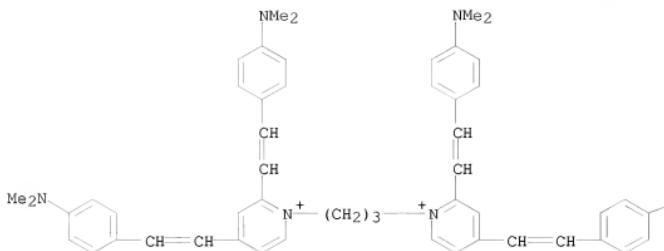


PAGE 2-A

| NMe<sub>2</sub>

L3 ANSWER 19 OF 44 REGISTRY COPYRIGHT 2007 ACS on STN  
RN 856965-40-7 REGISTRY  
ED Entered STN: 26 Jul 2005  
CN Pyridinium, 1,1'-trimethylenebis[2,4-bis(p-dimethylaminostyryl)- bromide]  
(5CI) (CA INDEX NAME)  
MF C53 H60 N6 . 2 Br  
SR CAS EARLY REGISTRATIONS  
LC STN Files: CA, CAPLUS  
CRN (857151-15-6)

PAGE 1-A

●2  $\text{Br}^-$ 

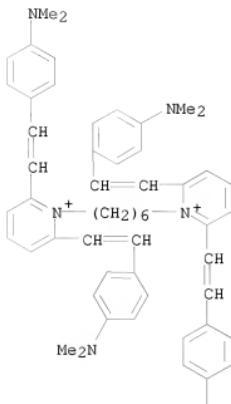
PAGE 1-B

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1 REFERENCES IN FILE CA (1907 TO DATE)  
 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

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 RN 856962-32-8 REGISTRY  
 ED Entered STN: 26 Jul 2005  
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 (5CI) (CA INDEX NAME)  
 MF C56 H66 N6 . 2 Br  
 SR CAS EARLY REGISTRATIONS  
 LC STN Files: CA, CAPLUS  
 CRN (857149-55-4)

PAGE 1-A

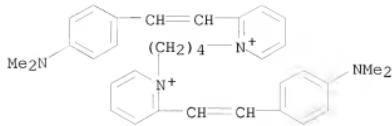


PAGE 2-A

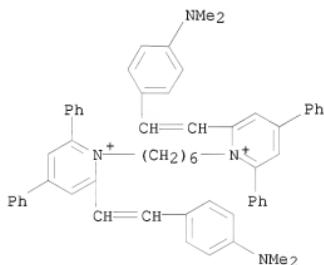
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1 REFERENCES IN FILE CA (1907 TO DATE)  
 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

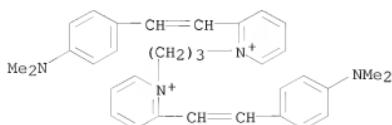
L3 ANSWER 21 OF 44 REGISTRY COPYRIGHT 2007 ACS on STN  
 RN 773797-86-7 REGISTRY  
 ED Entered STN: 01 Nov 2004  
 CN Pyridinium, 1,1'-(1,4-butanediyl)bis[2-[2-[4-(dimethylamino)phenyl]ethenyl]  
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 MF C34 H40 N4  
 CI COM  
 SR CA



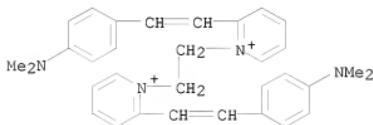
L3 ANSWER 22 OF 44 REGISTRY COPYRIGHT 2007 ACS on STN  
 RN 744141-63-7 REGISTRY  
 ED Entered STN: 13 Sep 2004  
 CN Pyridinium, 1,1'-(1,6-hexanediyil)bis[2-[2-[4-(dimethylamino)phenyl]ethenyl]-4,6-diphenyl- (CA INDEX NAME)  
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 SR CA



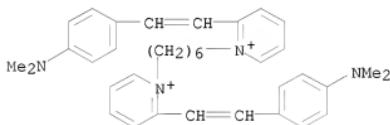
L3 ANSWER 23 OF 44 REGISTRY COPYRIGHT 2007 ACS on STN  
 RN 733713-49-0 REGISTRY  
 ED Entered STN: 27 Aug 2004  
 CN Pyridinium, 1,1'-(1,3-propanediyl)bis[2-[2-[4-(dimethylamino)phenyl]ethenyl]- (CA INDEX NAME)  
 MF C33 H38 N4  
 CI COM  
 SR CA



L3 ANSWER 24 OF 44 REGISTRY COPYRIGHT 2007 ACS on STN  
 RN 731760-10-4 REGISTRY  
 ED Entered STN: 23 Aug 2004  
 CN Pyridinium, 1,1'-(1,2-ethanediyl)bis[2-[2-[4-(dimethylamino)phenyl]ethenyl]  
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 MF C32 H36 N4  
 CI COM  
 SR CA



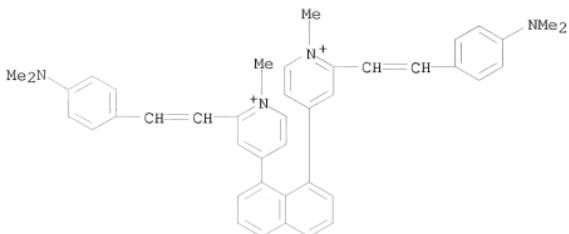
L3 ANSWER 25 OF 44 REGISTRY COPYRIGHT 2007 ACS on STN  
 RN 708969-94-2 REGISTRY  
 ED Entered STN: 12 Jul 2004  
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 ]- (CA INDEX NAME)  
 MF C36 H44 N4  
 CI COM  
 SR CA



L3 ANSWER 26 OF 44 REGISTRY COPYRIGHT 2007 ACS on STN  
 RN 188821-11-6 REGISTRY  
 ED Entered STN: 06 May 1997  
 CN Pyridinium, 4,4'-(1,8-naphthalenediyil)bis[2-[2-[4-(dimethylamino)phenyl]ethenyl]-1-methyl-, diperchlorate (9CI) (CA INDEX NAME)  
 MF C42 H42 N4 . 2 Cl O4  
 SR CA  
 LC STN Files: CA, CAPLUS

CM 1

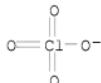
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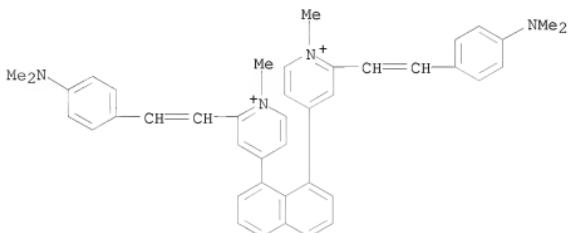
CRN 14797-73-0

CMF C1 O4

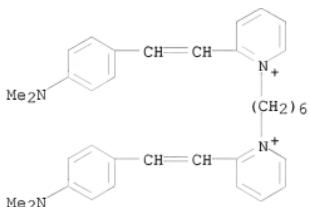


1 REFERENCES IN FILE CA (1907 TO DATE)  
 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L3 ANSWER 27 OF 44 REGISTRY COPYRIGHT 2007 ACS on STN  
 RN 188821-10-5 REGISTRY  
 ED Entered STN: 06 May 1997  
 CN Pyridinium, 4,4'-(1,8-naphthalenediyl)bis[2-[2-[4-(dimethylamino)phenyl]ethenyl]-1-methyl- (CA INDEX NAME)  
 MF C42 H42 N4  
 CI COM  
 SR CA

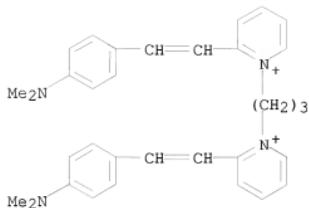


L3 ANSWER 28 OF 44 REGISTRY COPYRIGHT 2007 ACS on STN  
 RN 139537-27-2 REGISTRY  
 ED Entered STN: 13 Mar 1992  
 CN Pyridinium, 1,1'-(1,6-hexanediyil)bis[2-[2-[4-(dimethylamino)phenyl]ethenyl]-, dibromide (9CI) (CA INDEX NAME)  
 MF C36 H44 N4 . 2 Br  
 SR CA  
 LC STN Files: BEILSTEIN\*, CA, CAPLUS, CHEMINFORMRX, USPAT2, USPATFULL  
 (\*File contains numerically searchable property data)  
 CRN (708969-94-2)

● 2 Br<sup>-</sup>

14 REFERENCES IN FILE CA (1907 TO DATE)  
 14 REFERENCES IN FILE CAPLUS (1907 TO DATE)

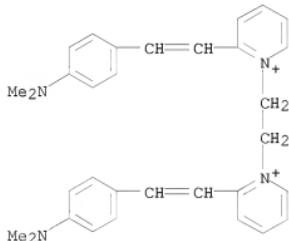
L3 ANSWER 29 OF 44 REGISTRY COPYRIGHT 2007 ACS on STN  
 RN 139537-26-1 REGISTRY  
 ED Entered STN: 13 Mar 1992  
 CN Pyridinium, 1,1'-(1,3-propanediyl)bis[2-[2-[4-(dimethylamino)phenyl]ethenyl]-, dibromide (9CI) (CA INDEX NAME)  
 MF C33 H38 N4 . 2 Br  
 SR CA  
 LC STN Files: BEILSTEIN\*, CA, CAPLUS  
 (\*File contains numerically searchable property data)  
 CRN (733713-49-0)



●2 Br<sup>-</sup>

1 REFERENCES IN FILE CA (1907 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L3 ANSWER 30 OF 44 REGISTRY COPYRIGHT 2007 ACS on STN  
 RN 139537-25-0 REGISTRY  
 ED Entered STN: 13 Mar 1992  
 CN Pyridinium, 1,1'-(1,2-ethanediyl)bis[2-[2-[4-(dimethylamino)phenyl]ethenyl]  
 ]-, dibromide (9CI) (CA INDEX NAME)  
 MF C32 H36 N4 . 2 Br  
 SR CA  
 LC STN Files: BEILSTEIN\*, CA, CAPLUS  
 (\*File contains numerically searchable property data)  
 CRN (731760-10-4)



●2 Br<sup>-</sup>

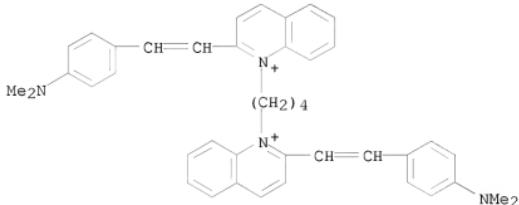
1 REFERENCES IN FILE CA (1907 TO DATE)

## 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L3 ANSWER 31 OF 44 REGISTRY COPYRIGHT 2007 ACS on STN  
 RN 98570-03-7 REGISTRY  
 ED Entered STN: 12 Oct 1985  
 CN Quinolinium, 1,1'-(1,4-butanediyl)bis[2-[2-[4-(dimethylamino)phenyl]ethenyl]-, salt with 4-methylbenzenesulfonic acid (1:2) (9CI) (CA INDEX NAME)  
 MF C42 H44 N4 . 2 C7 H7 O3 S  
 SR CA  
 LC STN Files: BEILSTEIN\*, CA, CAPLUS  
 (\*File contains numerically searchable property data)

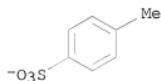
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CRN 98570-02-6  
 CMF C42 H44 N4



CM 2

CRN 16722-51-3  
 CMF C7 H7 O3 S

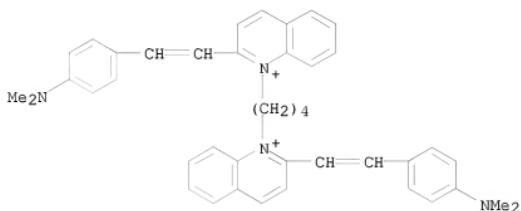


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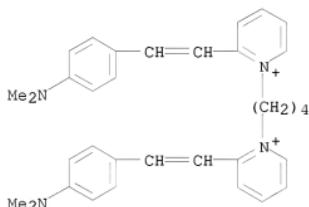
1 REFERENCES IN FILE CA (1907 TO DATE)  
 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L3 ANSWER 32 OF 44 REGISTRY COPYRIGHT 2007 ACS on STN  
 RN 98570-02-6 REGISTRY  
 ED Entered STN: 12 Oct 1985  
 CN Quinolinium, 1,1'-(1,4-butanediyl)bis[2-[2-[4-

MF (dimethylamino)phenyl]ethenyl]- (CA INDEX NAME)  
 C42 H44 N4  
 CI COM  
 SR CA



L3 ANSWER 33 OF 44 REGISTRY COPYRIGHT 2007 ACS on STN  
 RN 71068-06-9 REGISTRY  
 ED Entered STN: 16 Nov 1984  
 CN Pyridinium, 1,1'-(1,4-butanediyl)bis[2-[2-[4-(dimethylamino)phenyl]ethenyl]  
 ], dibromide (9CI) (CA INDEX NAME)  
 MF C34 H40 N4 . 2 Br  
 LC STN Files: BEILSTEIN\*, CA, CAPLUS, USPATFULL  
 (\*File contains numerically searchable property data)  
 CRN (773797-86-7)



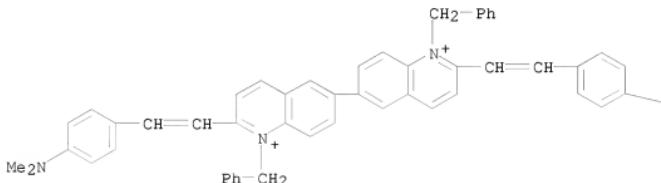
●2 Br<sup>-</sup>

2 REFERENCES IN FILE CA (1907 TO DATE)  
 2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L3 ANSWER 34 OF 44 REGISTRY COPYRIGHT 2007 ACS on STN  
 RN 47893-52-7 REGISTRY  
 ED Entered STN: 16 Nov 1984  
 CN 6,6'-Biquinolinium, 2,2'-bis[2-[4-(dimethylamino)phenyl]ethenyl]-1,1'-

MF bis(phenylmethyl)- (9CI) (CA INDEX NAME)  
 MF C52 H48 N4  
 CI COM  
 LC STN Files: BEILSTEIN\*  
 (\*File contains numerically searchable property data)

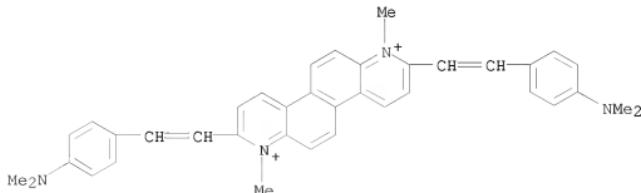
PAGE 1-A



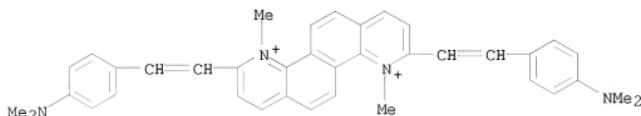
PAGE 1-B

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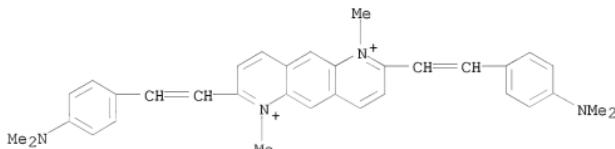
L3 ANSWER 35 OF 44 REGISTRY COPYRIGHT 2007 ACS on STN  
 RN 47832-42-8 REGISTRY  
 ED Entered STN: 16 Nov 1984  
 CN Quino[6,5-f]quinolinium, 2,8-bis[2-(4-(dimethylamino)phenyl)ethenyl]-1,7-dimethyl- (9CI) (CA INDEX NAME)  
 MF C38 H38 N4  
 CI COM  
 LC STN Files: BEILSTEIN\*  
 (\*File contains numerically searchable property data)



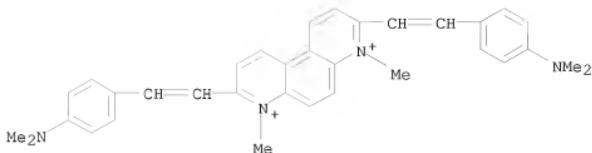
L3 ANSWER 36 OF 44 REGISTRY COPYRIGHT 2007 ACS on STN  
 RN 47832-28-0 REGISTRY  
 ED Entered STN: 16 Nov 1984  
 CN Quino[8,7-h]quinolinium, 3,9-bis[2-[4-(dimethylamino)phenyl]ethenyl]-4,10-dimethyl- (9CI) (CA INDEX NAME)  
 MF C38 H38 N4  
 CI COM  
 LC STN Files: BEILSTEIN\*  
 (\*File contains numerically searchable property data)



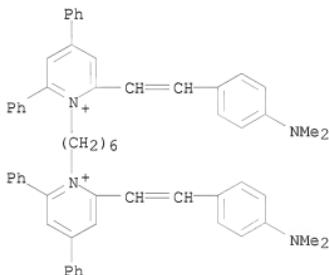
L3 ANSWER 37 OF 44 REGISTRY COPYRIGHT 2007 ACS on STN  
 RN 47801-45-6 REGISTRY  
 ED Entered STN: 16 Nov 1984  
 CN Pyrido[2,3-g]quinolinium, 2,7-bis[2-[4-(dimethylamino)phenyl]ethenyl]-1,6-dimethyl- (9CI) (CA INDEX NAME)  
 MF C34 H36 N4  
 CI COM



L3 ANSWER 38 OF 44 REGISTRY COPYRIGHT 2007 ACS on STN  
 RN 47799-32-6 REGISTRY  
 ED Entered STN: 16 Nov 1984  
 CN 4,7-Phenanthrolinium, 3,8-bis[2-[4-(dimethylamino)phenyl]ethenyl]-4,7-dimethyl- (9CI) (CA INDEX NAME)  
 MF C34 H36 N4  
 CI COM



L3 ANSWER 39 OF 44 REGISTRY COPYRIGHT 2007 ACS on STN  
 RN 38128-33-5 REGISTRY  
 ED Entered STN: 16 Nov 1984  
 CN Pyridinium, 1,1'-(1,6-hexanediyil)bis[2-[2-[4-(dimethylamino)phenyl]ethenyl]-4,6-diphenyl-, diiodide (9CI) (CA INDEX NAME)  
 OTHER NAMES:  
 CN 1,1'-Hexamethylenebis[2-(4-dimethylaminostyryl)-4,6-diphenylpyridinium iodide]  
 MF C<sub>60</sub> H<sub>60</sub> N<sub>4</sub> . 2 I  
 LC STN Files: CA, CAPLUS, IFICDB, IFIPAT, IFIUDB, USPATFULL  
 CRN (744141-63-7)



●2 I<sup>-</sup>

1 REFERENCES IN FILE CA (1907 TO DATE)  
 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

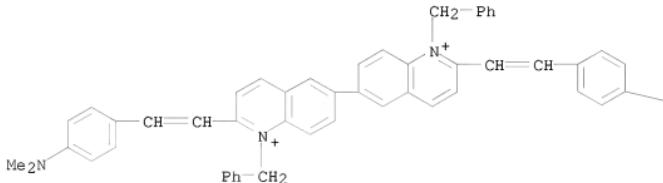
L3 ANSWER 40 OF 44 REGISTRY COPYRIGHT 2007 ACS on STN  
 RN 36840-77-4 REGISTRY  
 ED Entered STN: 16 Nov 1984  
 CN 6,6'-Biquinolinium, 2,2'-bis[2-[4-(dimethylamino)phenyl]ethenyl]-1,1'-

MF      bis(phenylmethyl)-, diperchlorate (9CI)    (CA INDEX NAME)  
 MF      C52 H48 N4 . 2 Cl O4  
 LC      STN Files: CA, CAPLUS

CM      1

CRN    47893-52-7  
 CMF    C52 H48 N4

PAGE 1-A

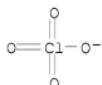


PAGE 1-B

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CRN    14797-73-0  
 CMF    Cl O4



1 REFERENCES IN FILE CA (1907 TO DATE)  
 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

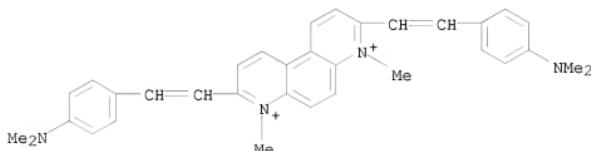
L3      ANSWER 41 OF 44    REGISTRY    COPYRIGHT 2007 ACS on STN  
 RN      36749-69-6    REGISTRY  
 ED      Entered STN: 16 Nov 1984  
 CN      4,7-Phenanthrolinium, 3,8-bis[2-(4-(dimethylamino)phenyl)ethenyl]-4,7-dimethyl-, diperchlorate (9CI)    (CA INDEX NAME)

## OTHER NAMES:

CN 2,7-Bis(p-dimethylaminostyryl)-1,8-dimethyl-1,8-diazoniaphenanthrene  
 diperchlorate  
 MF C34 H36 N4 . 2 Cl O4  
 LC STN Files: CA, CAPLUS

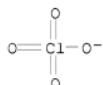
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CM 2

CRN 14797-73-0  
 CMF Cl O4

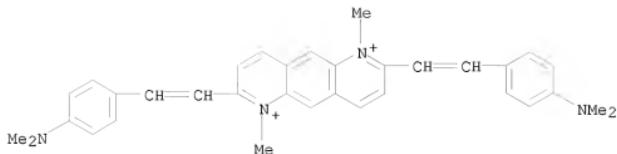


1 REFERENCES IN FILE CA (1907 TO DATE)  
 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

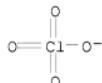
L3 ANSWER 42 OF 44 REGISTRY COPYRIGHT 2007 ACS on STN  
 RN 36749-67-4 REGISTRY  
 ED Entered STN: 16 Nov 1984  
 CN Pyrido[2,3-g]quinolinium, 2,7-bis[2-[4-(dimethylamino)phenyl]ethenyl]-1,6-dimethyl-, diperchlorate (9CI) (CA INDEX NAME)  
 OTHER NAMES:  
 CN 2,6-Bis(p-dimethylaminostyryl)-1,5-dimethyl-1,5-diazoniaanthracene bisperchlorate  
 CN 2,6-Bis(p-dimethylaminostyryl)-1,5-dimethyl-1,5-diazonianthracene diperchlorate  
 MF C34 H36 N4 . 2 Cl O4  
 LC STN Files: CA, CAPLUS

CM 1

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 CMF C34 H36 N4

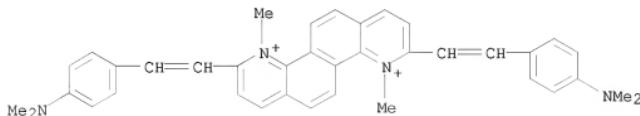


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CMF C1 O41 REFERENCES IN FILE CA (1907 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L3 ANSWER 43 OF 44 REGISTRY COPYRIGHT 2007 ACS on STN  
 RN 33697-38-0 REGISTRY  
 ED Entered STN: 16 Nov 1984  
 CN Quino[8,7-h]quinolinium, 3,9-bis[p-(dimethylamino)styryl]-4,10-dimethyl-,  
 diperchlorate (8CI) (CA INDEX NAME)  
 MF C38 H38 N4 . 2 Cl O4  
 LC STN Files: CA, CAPLUS

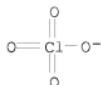
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CMF C38 H38 N4

CM 2

CRN 14797-73-0

CMF C1 O4

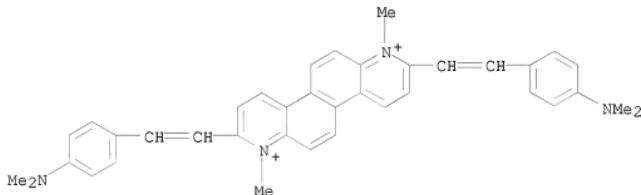


1 REFERENCES IN FILE CA (1907 TO DATE)  
 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L3 ANSWER 44 OF 44 REGISTRY COPYRIGHT 2007 ACS on STN  
 RN 33657-22-6 REGISTRY  
 ED Entered STN: 16 Nov 1984  
 CN Quino[6,5-f]quinolinium, 2,8-bis[p-(dimethylamino)styryl]-1,7-dimethyl-,  
 diperchlorate (8CI) (CA INDEX NAME)  
 MF C38 H38 N4 . 2 C1 O4  
 LC STN Files: CA, CAPLUS

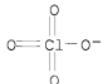
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CRN 47832-42-8  
 CMF C38 H38 N4



CM 2

CRN 14797-73-0  
 CMF C1 O4



1 REFERENCES IN FILE CA (1907 TO DATE)  
 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

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=> log hold
COST IN U.S. DOLLARS          SINCE FILE      TOTAL
                                ENTRY        SESSION
FULL ESTIMATED COST          261.65        261.86
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SESSION WILL BE HELD FOR 120 MINUTES  
 STN INTERNATIONAL SESSION SUSPENDED AT 09:10:33 ON 28 NOV 2007

Connecting via Winsock to STN

Welcome to STN International! Enter xx:

LOGINID:SSPTABSF1616

PASSWORD:  
 \* \* \* \* \* RECONNECTED TO STN INTERNATIONAL \* \* \* \* \*  
 SESSION RESUMED IN FILE 'REGISTRY' AT 09:13:44 ON 28 NOV 2007  
 FILE 'REGISTRY' ENTERED AT 09:13:44 ON 28 NOV 2007  
 COPYRIGHT (C) 2007 American Chemical Society (ACS)

COST IN U.S. DOLLARS	SINCE FILE	TOTAL
FULL ESTIMATED COST	ENTRY	SESSION
	261.65	261.86

=> d his

(FILE 'HOME' ENTERED AT 09:07:27 ON 28 NOV 2007)

FILE 'REGISTRY' ENTERED AT 09:07:44 ON 28 NOV 2007  
 L1 STRUCTURE uploaded  
 L2 1 S L1 SSS SAM  
 L3 44 S L1 SSS FULL

COST IN U.S. DOLLARS	SINCE FILE	TOTAL
FULL ESTIMATED COST	ENTRY	SESSION
	261.65	261.86

FILE 'CAPLUS' ENTERED AT 09:13:54 ON 28 NOV 2007  
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FILE LAST UPDATED: 27 Nov 2007 (20071127/ED)

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=> s 13

L4 30 L3

=> d ti 1-30

- L4 ANSWER 1 OF 30 CAPLUS COPYRIGHT 2007 ACS on STN  
TI Method of dyeing and lightening keratin materials in the presence of a reducing agent comprising a fluorescent disulfide dye
- L4 ANSWER 2 OF 30 CAPLUS COPYRIGHT 2007 ACS on STN  
TI Hair dye composition containing a thiol/disulfide fluorescent dye comprising an ortho-pyridinium group with an uninterrupted alkylene chain and an internal cationic charge
- L4 ANSWER 3 OF 30 CAPLUS COPYRIGHT 2007 ACS on STN  
TI Hair dye composition containing a thiol/disulfide fluorescent dye comprising an ortho-pyridinium group with an interrupted alkylene chain and an external cationic charge
- L4 ANSWER 4 OF 30 CAPLUS COPYRIGHT 2007 ACS on STN  
TI Hair dye composition containing a thiol/disulfide fluorescent dye comprising a condensed cycle, with an internal cationic charge
- L4 ANSWER 5 OF 30 CAPLUS COPYRIGHT 2007 ACS on STN  
TI Hair dye compositions comprising a disulfide fluorescent dye
- L4 ANSWER 6 OF 30 CAPLUS COPYRIGHT 2007 ACS on STN  
TI Mixtures of sulfide dyes for coloring of hair
- L4 ANSWER 7 OF 30 CAPLUS COPYRIGHT 2007 ACS on STN  
TI Styryl sulfide dyes, compositions thereof and processes for their preparation
- L4 ANSWER 8 OF 30 CAPLUS COPYRIGHT 2007 ACS on STN  
TI Sulfide hair dyes
- L4 ANSWER 9 OF 30 CAPLUS COPYRIGHT 2007 ACS on STN  
TI Composition for coloring for human keratinic substances containing a fluorescent dye and a particulate sequestering agent
- L4 ANSWER 10 OF 30 CAPLUS COPYRIGHT 2007 ACS on STN  
TI Method for coloring of human keratinic substances with a fluorescent particulate compound
- L4 ANSWER 11 OF 30 CAPLUS COPYRIGHT 2007 ACS on STN  
TI Composition for dyeing human keratinic fibers comprising a fluorescent coloring agent and an insoluble conditioning agent

- L4 ANSWER 12 OF 30 CAPLUS COPYRIGHT 2007 ACS on STN  
TI Composition for dyeing human keratinic fibers comprising a fluorescent dye and a polyol
- L4 ANSWER 13 OF 30 CAPLUS COPYRIGHT 2007 ACS on STN  
TI Hair coloring composition containing a fluorescent dye and an associative polymer
- L4 ANSWER 14 OF 30 CAPLUS COPYRIGHT 2007 ACS on STN  
TI Hair dyeing composition containing a fluorescent dye and an acid
- L4 ANSWER 15 OF 30 CAPLUS COPYRIGHT 2007 ACS on STN  
TI Hair dyeing composition for human keratinic material comprising a fluorescent coloring agent and an insoluble polyorganosiloxane conditioning polymer
- L4 ANSWER 16 OF 30 CAPLUS COPYRIGHT 2007 ACS on STN  
TI Fluorescent dye composition for human keratin fibers
- L4 ANSWER 17 OF 30 CAPLUS COPYRIGHT 2007 ACS on STN  
TI Use of compositions containing a fluorescent dye and an amphoteric or nonionic surfactant for dyeing human keratinic fibers with a bleaching effect
- L4 ANSWER 18 OF 30 CAPLUS COPYRIGHT 2007 ACS on STN  
TI Hair dye composition for keratinic materials comprising a fluorescent dye and an aminosilicone
- L4 ANSWER 19 OF 30 CAPLUS COPYRIGHT 2007 ACS on STN  
TI Brightening compositions comprising a fluorescent dye and a polymer thickener for human keratinic matter
- L4 ANSWER 20 OF 30 CAPLUS COPYRIGHT 2007 ACS on STN  
TI Hair dye preparation comprising a fluorescent dye and cationic polymer
- L4 ANSWER 21 OF 30 CAPLUS COPYRIGHT 2007 ACS on STN  
TI Process for dyeing human keratinic fibers with a brightening effect, wherein the fibers had undergone a permanent wave treatment and wherein a composition comprising a fluorescent dye is applied
- L4 ANSWER 22 OF 30 CAPLUS COPYRIGHT 2007 ACS on STN  
TI 1,8-Naphthylene chain-linked fluorescent cyanine dyes
- L4 ANSWER 23 OF 30 CAPLUS COPYRIGHT 2007 ACS on STN  
TI Synthesis of some bischromophoric dyes containing a nonabsorbing flexible bridge
- L4 ANSWER 24 OF 30 CAPLUS COPYRIGHT 2007 ACS on STN  
TI Reaction of quinaldine with polymethylene glycol bis(p-toluenesulfonates)
- L4 ANSWER 25 OF 30 CAPLUS COPYRIGHT 2007 ACS on STN  
TI Methine dyes
- L4 ANSWER 26 OF 30 CAPLUS COPYRIGHT 2007 ACS on STN  
TI Polynuclear azaaromatic compounds. III. Derivatives of 1,5-diazaanthracene, 1,8- and 1,5-diazaphenanthrenes, and 1,5-diazanaphthalene

L4 ANSWER 27 OF 30 CAPLUS COPYRIGHT 2007 ACS on STN  
 TI Photographic dyes derived from 4,6-diaryl picolinium salts

L4 ANSWER 28 OF 30 CAPLUS COPYRIGHT 2007 ACS on STN  
 TI Synthesis and spectra of bisquaternary quinaldinium salts

L4 ANSWER 29 OF 30 CAPLUS COPYRIGHT 2007 ACS on STN  
 TI Polynuclear azaaromatic compounds. II. Derivatives of diazachrysenes

L4 ANSWER 30 OF 30 CAPLUS COPYRIGHT 2007 ACS on STN  
 TI Photographic sensitizing dyes

=> d ibib abs hitstr 21 25

L4 ANSWER 21 OF 30 CAPLUS COPYRIGHT 2007 ACS on STN  
 ACCESSION NUMBER: 2004:822830 CAPLUS  
 DOCUMENT NUMBER: 141:319498  
 TITLE: Process for dyeing human keratinic fibers with a brightening effect, wherein the fibers had undergone a permanent wave treatment and wherein a composition comprising a fluorescent dye is applied  
 INVENTOR(S): Plos, Gregory; Samain, Henri  
 PATENT ASSIGNEE(S): L'oreal, Fr.  
 SOURCE: Eur. Pat. Appl., 21 pp.  
 CODEN: EPXXDW  
 DOCUMENT TYPE: Patent  
 LANGUAGE: French  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 1464318	A1	20041006	EP 2004-290866	20040401
EP 1464318	B1	20061011		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, PL, SK, HR				
FR 2853237	A1	20041008	FR 2003-4031	20030401
FR 2853237	B1	20060714		
JP 2004307498	A	20041104	JP 2004-108897	20040401
US 2005005368	A1	20050113	US 2004-814333	20040401
US 7195650	B2	20070327		
BR 2004001191	A	20050118	BR 2004-1191	20040401
MX 2004PA03096	A	20050331	MX 2004-PA3096	20040401
AT 342042	T	20061115	AT 2004-290866	20040401
ES 2273179	T3	20070501	ES 2004-4290866	20040401
JP 2006249103	A	20060921	JP 2006-175856	20060626
PRIORITY APPLN. INFO.:			FR 2003-4031 A 20030401	
			US 2003-468104P P 20030506	
			JP 2004-108897 A3 20040401	

OTHER SOURCE(S): MARPAT 141:319498  
 AB Process for dyeing human keratinic fibers with a brightening effect, wherein the fibers had undergone a permanent wave treatment and wherein a composition comprising a fluorescent dye is applied is disclosed. Thus, 1,6-dibromohexane was reacted with 2-picoline to obtain a precipitate which was separated and reacted with p-dimethylaminobenzaldehyde to obtain

1,6-bis([(2-p-dimethylaminophenylethenyl)pyridinium]hexane derivative (I). A hair dye composition contained I 0.6, sodium N-cocoyl amidoethyl N-ethoxycarboxymethyl glycinate 2, hexylene glycol 7, and water q.s. 100%.

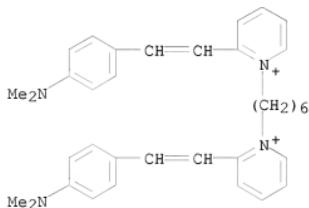
IT 139537-27-2P

RL: COS (Cosmetic use); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)

(process for dyeing human keratinic fibers with brightening effect, wherein fibers had undergone permanent wave treatment and wherein composition comprising fluorescent dye is applied)

RN 139537-27-2 CAPLUS

CN Pyridinium, 1,1'-(1,6-hexanediy1)bis[2-[2-[4-(dimethylamino)phenyl]ethenyl]<sup>-</sup>, dibromide (9CI) (CA INDEX NAME)



● 2 Br<sup>-</sup>

L4 ANSWER 25 OF 30 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1979:509008 CAPLUS

DOCUMENT NUMBER: 91:109008

ORIGINAL REFERENCE NO.: 91:17599a,17602a

TITLE: Methine dyes

INVENTOR(S): Degen, Hans Juergen; Feichtmayr, Franz; Grychtol, Klaus

PATENT ASSIGNEE(S): BASF A.-G., Fed. Rep. Ger.

SOURCE: Ger. Offen., 31 pp.

CODEN: GWXXBX

DOCUMENT TYPE: Patent

LANGUAGE: German

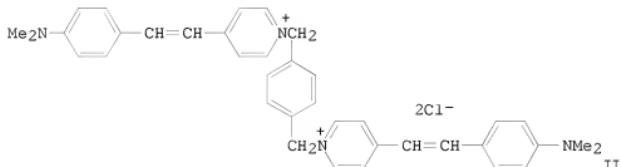
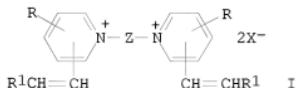
FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

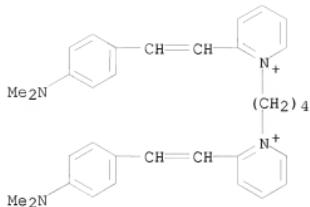
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 2754403	A1	19790613	DE 1977-2754403	19771207
DE 2754403	C2	19870527		
FR 2411219	A1	19790706	FR 1978-33522	19781128
FR 2411219	B1	19830923		
CH 639114	A5	19831031	CH 1978-12364	19781204
JP 54086521	A	19790710	JP 1978-150129	19781206
JP 62049311	B	19871019		

GB 2011457	A	19790711	GB 1978-47324	19781206
GB 2011457	B	19820526		
US 4256458	A	19810317	US 1979-50527	19790621
PRIORITY APPLN. INFO.:			DE 1977-2754403	A 19771207
			US 1978-964148	A3 19781128

GI



- AB Substantive yellow to bluish red paper dyes having the general structure I are prepared, where R = H, Me, or Et, R' = aryl or heteroaryl, Z = alkylene or arylene dimethylene, X- = anion, and the methine groups are in  $\alpha$ - or  $\gamma$ -position. Thus, reaction of p-(dimethylamino)benzaldehyde [100-10-7] with 1,1'-(p-xylylene)bis(4-methylpyridinium chloride) [71068-00-3] in refluxing HOAc gave II [71068-16-1], a red powder which dyed bleached sulfite pulp red shades. Other I were similarly prepared
- IT 71068-06-9P
- RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)  
(manufacture of, as dye for paper)
- RN 71068-06-9 CAPLUS
- CN Pyridinium, 1,1'-(1,4-butanediyl)bis[2-[2-[4-(dimethylamino)phenyl]ethenyl]-, dibromide (9CI) (CA INDEX NAME)



●2 Br<sup>-</sup>

=> log hold			
COST IN U.S. DOLLARS	SINCE FILE	TOTAL	
FULL ESTIMATED COST	ENTRY	SESSION	
	23.09	284.95	
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL	
CA SUBSCRIBER PRICE	ENTRY	SESSION	
	-1.56	-1.56	

SESSION WILL BE HELD FOR 120 MINUTES  
STN INTERNATIONAL SESSION SUSPENDED AT 09:17:07 ON 28 NOV 2007

Connecting via Winsock to STN

Welcome to STN International! Enter :::

LOGINID:SSPTABSF1616

PASSWORD:

\* \* \* \* \* RECONNECTED TO STN INTERNATIONAL \* \* \* \* \*  
SESSION RESUMED IN FILE 'CPLUS' AT 09:24:57 ON 28 NOV 2007  
FILE 'CPLUS' ENTERED AT 09:24:57 ON 28 NOV 2007  
COPYRIGHT (C) 2007 AMERICAN CHEMICAL SOCIETY (ACS)

COST IN U.S. DOLLARS	SINCE FILE	TOTAL	
FULL ESTIMATED COST	ENTRY	SESSION	
	23.09	284.95	
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL	
CA SUBSCRIBER PRICE	ENTRY	SESSION	
	-1.56	-1.56	

=> d his

(FILE 'HOME' ENTERED AT 09:07:27 ON 28 NOV 2007)

FILE 'REGISTRY' ENTERED AT 09:07:44 ON 28 NOV 2007

L1                   STRUCTURE uploaded  
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 L3                 44 S L1 SSS FULL

FILE 'CPLUS' ENTERED AT 09:13:54 ON 28 NOV 2007  
 L4                 30 S L3

=> s ?silicone  
 L5                 110721 ?SILICONE

=> s ?siloxane  
 L6                 120996 ?SILOXANE

=> s 15 or 16  
 L7                 198161 L5 OR L6

=> s 14 and 17  
 L8                 2 L4 AND L7

=> d ibib abs hitstr 1-2

L8   ANSWER 1 OF 2   CPLUS   COPYRIGHT 2007 ACS on STN  
 ACCESSION NUMBER:           2004:822836   CPLUS  
 DOCUMENT NUMBER:           141:319504  
 TITLE:                    Hair dyeing composition for human keratinic material  
                           comprising a fluorescent coloring agent and an  
                           insoluble polyorganosiloxane conditioning  
                           polymer  
 INVENTOR(S):            Plos, Gregory; Samain, Henri  
 PATENT ASSIGNEE(S):      L'oreal, Fr.  
 SOURCE:                  Eur. Pat. Appl., 30 pp.  
 CODEN: EPXXDW  
 DOCUMENT TYPE:           Patent  
 LANGUAGE:                French  
 FAMILY ACC. NUM. COUNT:  1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 1464324	A1	20041006	EP 2004-290867	20040401
EP 1464324	B1	20061108		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, PL, SK, HR				
FR 2853238	A1	20041008	FR 2003-4033	20030401
MX 2004PA03094	A	20041027	MX 2004-PA3094	20040401
JP 2004307499	A	20041104	JP 2004-108898	20040401
US 2005005369	A1	20050113	US 2004-814334	20040401
US 7147673	B2	20061212		
BR 2004001184	A	20050118	BR 2004-1184	20040401
AT 344656	T	20061115	AT 2004-290867	20040401
ES 2275189	T3	20070601	ES 2004-4290867	20040401
JP 2006282673	A	20061019	JP 2006-175811	20060626
PRIORITY APPLN. INFO.:			FR 2003-4033	A 20030401

US 2003-468079P P 20030506  
 JP 2004-108898 A3 20040401

OTHER SOURCE(S): MARPAT 141:319504

AB Hair dyeing compns. for human keratinic material comprising a fluorescent coloring agent and an insol. polyorganosiloxane conditioning polymer are disclosed. Thus, 1,6-dibromo hexane was reacted with 2-picoline to obtain a precipitate which was separated and reacted with p-dimethylaminobenzaldehyde to obtain 1,6-bis[(2-p-dimethylaminophenyl)ethenyl]hexane derivative (I). A hair dye composition contained I 0.6, Mirasil 70047 V500000 0.25, sodium lauryl ether sulfate 10, and water q.s. 100%.

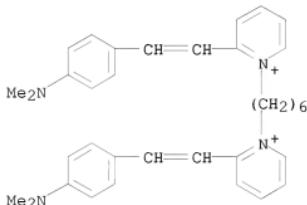
IT 139537-27-2P

RL: COS (Cosmetic use); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)

(hair dyeing composition for human keratinic material comprising fluorescent coloring agent and insol. polyorganosiloxane conditioning polymer)

RN 139537-27-2 CAPLUS

CN Pyridinium, 1,1'-(1,6-hexanediy1)bis[2-[2-[4-(dimethylamino)phenyl]ethenyl]-, dibromide (9CI) (CA INDEX NAME)



●2 Br<sup>-</sup>

L8 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2004:822833 CAPLUS

DOCUMENT NUMBER: 141:319501

TITLE: Hair dye composition for keratinic materials comprising a fluorescent dye and an aminosilicone

INVENTOR(S): Gourlaouen, Luc; Samain, Henri

PATENT ASSIGNEE(S): L'oreal, Fr.

SOURCE: Eur. Pat. Appl., 30 pp.

CODEN: EPXXDW

DOCUMENT TYPE: Patent

LANGUAGE: French

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.

KIND

DATE

APPLICATION NO.

DATE

EP 1464321	A1	20041006	EP 2004-290863	20040401
EP 1464321	B1	20061206		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, PL, SK, HR				
FR 2853233	A1	20041008	FR 2003-4027	20030401
FR 2853233	B1	20071005		
JP 2004307496	A	20041104	JP 2004-108822	20040401
BR 2004001188	A	20050118	BR 2004-1188	20040401
US 2005031563	A1	20050210	US 2004-814428	20040401
US 2006078517	A9	20060413		
MX 2004PA03101	A	20050331	MX 2004-PA3101	20040401
AT 347350	T	20061215	AT 2004-290863	20040401
ES 2276241	T3	20070616	ES 2004-4290863	20040401
JP 2006273865	A	20061012	JP 2006-175750	20060626
PRIORITY APPLN. INFO.:			FR 2003-4027 US 2003-468107P JP 2004-108822	A 20030401 P 20030506 A3 20040401

OTHER SOURCE(S): MARPAT 141:319501

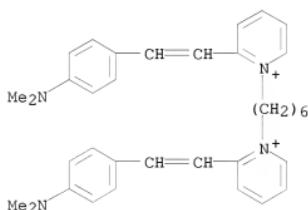
AB Hair dye preps. comprising a particulate fluorescent dye and an aminosilicone are disclosed. Thus, 1,6-dibromohexane was reacted with 2-picoline to obtain a precipitate which was separated and reacted with p-dimethylaminobenzaldehyde to obtain 1,6-bis[(2-p-dimethylaminophenylethenyl)pyridinium]hexane polymer (I). A hair dye composition contained I 1, DC2939 0.2, and water q.s. 100%.

IT 139537-27-2P

RL: COS (Cosmetic use); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)  
(hair dye composition for keratinic materials comprising fluorescent dye and aminosilicone)

RN 139537-27-2 CAPLUS

CN Pyridinium, 1,1'-(1,6-hexanediyi)b[2-[2-[4-(dimethylamino)phenyl]ethenyl]-, dibromide (9CI) (CA INDEX NAME)



●2 Br<sup>-</sup>

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(FILE 'HOME' ENTERED AT 09:07:27 ON 28 NOV 2007)

FILE 'REGISTRY' ENTERED AT 09:07:44 ON 28 NOV 2007

L1                   STRUCTURE UPLOADED  
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 L3                   44 S L1 SSS FULL

FILE 'CAPLUS' ENTERED AT 09:13:54 ON 28 NOV 2007

L4                   30 S L3  
 L5                   110721 S ?SILICONE  
 L6                   120996 S ?SILOXANE  
 L7                   198161 S L5 OR L6  
 L8                   2 S L4 AND L7

=&gt; d ibib 1-30

L8 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2007 ACS on STN  
 ACCESSION NUMBER: 2004:822836 CAPLUS  
 DOCUMENT NUMBER: 141:319504  
 TITLE: Hair dyeing composition for human keratinic material comprising a fluorescent coloring agent and an insoluble polyorganosiloxane conditioning polymer  
 INVENTOR(S): Plos, Gregory; Samain, Henri  
 PATENT ASSIGNEE(S): L'oreal, Fr.  
 SOURCE: Eur. Pat. Appl., 30 pp.  
 CODEN: EPXXDW  
 DOCUMENT TYPE: Patent  
 LANGUAGE: French  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 1464324	A1	20041006	EP 2004-290867	20040401
EP 1464324	B1	20061108		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, PL, SK, HR				
FR 2853238	A1	20041008	FR 2003-4033	20030401
MX 2004PA03094	A	20041027	MX 2004-PA3094	20040401
JP 2004307499	A	20041104	JP 2004-108898	20040401
US 2005005369	A1	20050113	US 2004-814334	20040401
US 7147673	B2	20061212		
BR 2004001184	A	20050118	BR 2004-1184	20040401
AT 344656	T	20061115	AT 2004-290867	20040401
ES 2275189	T3	20070601	ES 2004-4290867	20040401
JP 2006282673	A	20061019	JP 2006-175811	20060626
PRIORITY APPLN. INFO.:			FR 2003-4033	A 20030401
			US 2003-468079P	P 20030506
			JP 2004-108898	A3 20040401

OTHER SOURCE(S): MARPAT 141:319504

L8 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2004:822833 CAPLUS  
 DOCUMENT NUMBER: 141:319501  
 TITLE: Hair dye composition for keratinic materials comprising a fluorescent dye and an

INVENTOR(S): aminosilicone  
 Gourlaouen, Luc; Samain, Henri  
 PATENT ASSIGNEE(S): L'oreal, Fr.  
 SOURCE: Eur. Pat. Appl., 30 pp.  
 CODEN: EPXWDW  
 DOCUMENT TYPE: Patent  
 LANGUAGE: French  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 1464321	A1	20041006	EP 2004-290863	20040401
EP 1464321	B1	20061206		
R: AT, BE, CH, DE, DK, ES, FR, IE, SI, LT, LV, FI, RO, MK, FR 2853233	GB, GR, IT, LI, LU, NL, CY, AL, TR, BG, CZ, EE,	SE, MC, PT, HU, PL, SK, HR		
FR 2853233	A1	20041008	FR 2003-4027	20030401
FR 2853233	B1	20071005		
JP 2004307496	A	20041104	JP 2004-108822	20040401
BR 2004001188	A	20050118	BR 2004-1188	20040401
US 2005031563	A1	20050210	US 2004-814428	20040401
US 2006078517	A9	20060413		
MX 2004PA03101	A	20050331	MX 2004-PA3101	20040401
AT 347350	T	20061215	AT 2004-290863	20040401
ES 2276241	T3	20070616	ES 2004-4290863	20040401
JP 2006273865	A	20061012	JP 2006-175750	20060626
PRIORITY APPLN. INFO.:			FR 2003-4027	A 20030401
			US 2003-468107P	P 20030506
			JP 2004-108822	A3 20040401

OTHER SOURCE(S): MARPAT 141:319501

=> d 14 ibib 1-30

L4 ANSWER 1 OF 30 CAPLUS COPYRIGHT 2007 ACS on STN  
 ACCESSION NUMBER: 2007:1116944 CAPLUS  
 DOCUMENT NUMBER: 147:412670  
 TITLE: Method of dyeing and lightening keratin materials in  
 the presence of a reducing agent comprising a  
 fluorescent disulfide dye  
 INVENTOR(S): Daubresse, Nicolas; Greaves, Andrew; Samain, Henri  
 PATENT ASSIGNEE(S): L'Oreal, Fr.  
 SOURCE: PCT Int. Appl., 78pp.  
 CODEN: PIXXD2  
 DOCUMENT TYPE: Patent  
 LANGUAGE: French  
 FAMILY ACC. NUM. COUNT: 13  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2007110542	A2	20071004	WO 2007-FR51008	20070323
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO,				

RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT,  
 TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW  
 RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE,  
 IS, IT, LT, LU, LV, MC, MT, NL, PL, PT, RO, SE, SI, SK, TR, BF,  
 BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW,  
 GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ,  
 BY, KG, KZ, MD, RU, TJ, TM

FR 2898903 A1 20070928 FR 2006-51035 20060324

PRIORITY APPLN. INFO.: FR 2006-51035 A 20060324

US 2006-792941P P 20060419

OTHER SOURCE(S): MARPAT 147:412670

L4 ANSWER 2 OF 30 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2007:1116762 CAPLUS

DOCUMENT NUMBER: 147:412669

TITLE: Hair dye composition containing a thiol/disulfide fluorescent dye comprising an ortho-pyridinium group with an uninterrupted alkylene chain and an internal cationic charge

INVENTOR(S): Greaves, Andrew; Daubresse, Nicolas

PATENT ASSIGNEE(S): L'Oreal, Fr.

SOURCE: PCT Int. Appl., 53pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: French

FAMILY ACC. NUM. COUNT: 13

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2007110536	A2	20071004	WO 2007-FR51002	20070323

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA,  
 CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB,  
 GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JE, KE, KG, KM,  
 KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, MG, MK,  
 MN, MM, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO,  
 RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT,  
 TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW  
 RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE,  
 IS, IT, LT, LU, LV, MC, MT, NL, PL, PT, RO, SE, SI, SK, TR, BF,  
 BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW,  
 GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ,  
 BY, KG, KZ, MD, RU, TJ, TM

FR 2898903 A1 20070928 FR 2006-51035 20060324

PRIORITY APPLN. INFO.: FR 2006-51035 A 20060324

US 2006-792941P P 20060419

FR 2007-53068 A 20070205

US 2007-900697P P 20070212

OTHER SOURCE(S): MARPAT 147:412669

L4 ANSWER 3 OF 30 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2007:1116758 CAPLUS

DOCUMENT NUMBER: 147:412665

TITLE: Hair dye composition containing a thiol/disulfide fluorescent dye comprising an ortho-pyridinium group with an interrupted alkylene chain and an external cationic charge

INVENTOR(S): Greaves, Andrew; Daubresse, Nicolas  
 PATENT ASSIGNEE(S): L'Oreal, Fr.  
 SOURCE: PCT Int. Appl., 55pp.  
 CODEN: PIXXD2  
 DOCUMENT TYPE: Patent  
 LANGUAGE: French  
 FAMILY ACC. NUM. COUNT: 13  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2007110535	A2	20071004	WO 2007-FR51001	20070323
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW				
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FR 2898903	A1	20070928	FR 2006-51035	20060324
PRIORITY APPLN. INFO.:			FR 2006-51035	A 20060324
			US 2006-792941P	P 20060419
			FR 2007-53067	A 20070205
			US 2007-900710P	P 20070212

OTHER SOURCE(S): MARPAT 147:412665

L4 ANSWER 4 OF 30 CAPLUS COPYRIGHT 2007 ACS on STN  
 ACCESSION NUMBER: 2007:1116757 CAPLUS  
 DOCUMENT NUMBER: 147:412664  
 TITLE: Hair dye composition containing a thiol/disulfide fluorescent dye comprising a condensed cycle, with an internal cationic charge  
 INVENTOR(S): Greaves, Andrew; Daubresse, Nicolas  
 PATENT ASSIGNEE(S): L'Oreal, Fr.  
 SOURCE: PCT Int. Appl., 84pp.  
 CODEN: PIXXD2  
 DOCUMENT TYPE: Patent  
 LANGUAGE: French  
 FAMILY ACC. NUM. COUNT: 13  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2007110541	A2	20071004	WO 2007-FR51007	20070323
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RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE,				

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FR 2898903 A1 20070928 FR 2006-51035 20060324  
 PRIORITY APPLN. INFO.: FR 2006-51035 A 20060324  
 US 2006-792941P P 20060419  
 FR 2007-53064 A 20070205  
 US 2007-900364P P 20070209

OTHER SOURCE(S): MARPAT 147:412664

L4 ANSWER 5 OF 30 CAPLUS COPYRIGHT 2007 ACS on STN  
 ACCESSION NUMBER: 2007:1089885 CAPLUS  
 DOCUMENT NUMBER: 147:412649  
 TITLE: Hair dye compositions comprising a disulfide  
       fluorescent dye  
 INVENTOR(S): Samain, Henri; Daubresse, Nicolas; Greaves, Andrew  
 PATENT ASSIGNEE(S): L'Oreal, Fr.  
 SOURCE: Fr. Demande, 92pp.  
 DOCUMENT TYPE: Patent  
 LANGUAGE: French  
 FAMILY ACC. NUM. COUNT: 13  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
FR 2898903	A1	20070928	FR 2006-51035	20060324
WO 2007110532	A2	20071004	WO 2007-FR50998	20070323
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WO 2007110533	A2	20071004	WO 2007-FR50999	20070323
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WO 2007110534	A2	20071004	WO 2007-FR51000	20070323
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB,				

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 WO 2007110535 A2 20071004 WO 2007-FR51001 20070323  
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WO 2007110539 A2 20071004 WO 2007-FR51005 20070323

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WO 2007110540 A2 20071004 WO 2007-FR51006 20070323

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WO 2007110541 A2 20071004 WO 2007-FR51007 20070323

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WO 2007110542 A2 20071004 WO 2007-FR51008 20070323

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## PRIORITY APPLN. INFO.:

FR	2006-51035	A	20060324
US	2006-792941P	P	20060419
FR	2007-53064	A	20070205
FR	2007-53065	A	20070205
FR	2007-53066	A	20070205
FR	2007-53067	A	20070205
FR	2007-53068	A	20070205
FR	2007-53070	A	20070205
FR	2007-53071	A	20070205
FR	2007-53072	A	20070205
FR	2007-53073	A	20070205
FR	2007-53075	A	20070205
US	2007-900361P	P	20070209
US	2007-900362P	P	20070209
US	2007-900363P	P	20070209
US	2007-900364P	P	20070209
US	2007-900696P	P	20070212
US	2007-900697P	P	20070212
US	2007-900710P	P	20070212
US	2007-901319P	P	20070215
US	2007-901322P	P	20070215
US	2007-901325P	P	20070215

## OTHER SOURCE(S):

## REFERENCE COUNT:

MARPAT 147:412649  
 21 THERE ARE 21 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 6 OF 30 CAPLUS COPYRIGHT 2007 ACS on STN  
 ACCESSION NUMBER: 2006:1357157 CAPLUS  
 DOCUMENT NUMBER: 146:106783  
 TITLE: Mixtures of sulfide dyes for coloring of hair  
 INVENTOR(S): Cremer, Christian; Eliu, Victor Paul; Wallquist, Olof  
 PATENT ASSIGNEE(S): Ciba Specialty Chemicals Holding Inc., Switz.;  
 Froehling, Beate  
 SOURCE: PCT Int. Appl., 187pp.  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2006136617	A2	20061228	WO 2006-EP66325	20060913
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW				
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## PRIORITY APPLN. INFO.:

EP 2005-109445

A 20051011

## OTHER SOURCE(S):

MARPAT 146:106783

L4 ANSWER 7 OF 30 CAPLUS COPYRIGHT 2007 ACS on STN  
 ACCESSION NUMBER: 2006:1338724 CAPLUS  
 DOCUMENT NUMBER: 146:83203  
 TITLE: Styryl sulfide dyes, compositions thereof and processes for their preparation  
 INVENTOR(S): Eliu, Victor Paul; Froehling, Beate; Kauffmann, Dominique  
 PATENT ASSIGNEE(S): Ciba Specialty Chemicals Holding Inc., Switz.  
 SOURCE: PCT Int. Appl., 67pp.  
 CODEN: PIXXD2  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2006134043	A2	20061221	WO 2006-EP62946	20060607
WO 2006134043	A3	20071004		
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PRIORITY APPLN. INFO.: EP 2005-105283 A 20050616  
 OTHER SOURCE(S): MARPAT 146:83203

L4 ANSWER 8 OF 30 CAPLUS COPYRIGHT 2007 ACS on STN  
 ACCESSION NUMBER: 2005:1223755 CAPLUS  
 DOCUMENT NUMBER: 145:14068  
 TITLE: Sulfide hair dyes  
 AUTHOR(S): Anon.  
 CORPORATE SOURCE: USA  
 SOURCE: IP.com Journal (2005), 5(10B), 24 (No.  
 IPCOM000130141D), 13 Oct 2005  
 CODEN: IJPOBX; ISSN: 1533-0001  
 PUBLISHER: IP.com, Inc.  
 DOCUMENT TYPE: Journal; Patent  
 LANGUAGE: English  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
IP 130141D		20051013	IP 2005-130141D	20051013

L4 ANSWER 9 OF 30 CAPLUS COPYRIGHT 2007 ACS on STN  
 ACCESSION NUMBER: 2004:822985 CAPLUS  
 DOCUMENT NUMBER: 141:337250

TITLE: Composition for coloring for human keratinic substances containing a fluorescent dye and a particulate sequestering agent

INVENTOR(S): Plos, Gregory; Gourlaouen, Luc

PATENT ASSIGNEE(S): L'oreal, Fr.

SOURCE: Fr. Demande, 35 pp.

CODEN: FRXXBL

DOCUMENT TYPE: Patent

LANGUAGE: French

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
FR 2853231	A1	20041008	FR 2003-4024	20030401
WO 2004091556	A2	20041028	WO 2004-FR818	20040401
WO 2004091556	A3	20050217		
W: AB, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, US, UZ, VC, VN, YU, ZA, ZM, ZW RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
US 2005098763	A1	20050512	US 2004-814585	20040401
US 7192454	B2	20070320		
BR 2004005648	A	20050719	BR 2004-5648	20040401
EP 1622580	A2	20060208	EP 2004-758927	20040401
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, FI, RO, CY, TR, BG, CZ, EE, HU, PL, SK				
JP 2006522077	T	20060928	JP 2006-505773	20040401
PRIORITY APPLN. INFO.:			FR 2003-4024	A 20030401
			US 2003-468081P	P 20030506
			WO 2004-FR818	W 20040401

OTHER SOURCE(S): MARPAT 141:337250  
 REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 10 OF 30 CAPLUS COPYRIGHT 2007 ACS on STN  
 ACCESSION NUMBER: 2004:822984 CAPLUS  
 DOCUMENT NUMBER: 141:337249  
 TITLE: Method for coloring of human keratinic substances with a fluorescent particulate compound

INVENTOR(S): Greaves, Andrew; Daubresse, Nicolas; Radisson, Xavier  
 PATENT ASSIGNEE(S): L'oreal, Fr.  
 SOURCE: Fr. Demande, 53 pp.

CODEN: FRXXBL

DOCUMENT TYPE: Patent

LANGUAGE: French

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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 FR 2853229 A1 20041008 FR 2003-4022 20030401  
 WO 2004091473 A2 20041028 WO 2004-FR819 20040401  
 WO 2004091473 A3 20050310  
 W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH,  
 CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD,  
 GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC,  
 LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI,  
 NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY,  
 TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW  
 RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ,  
 BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE,  
 ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI,  
 SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN,  
 TD, TG  
 US 2005011018 A1 20050120 US 2004-814336 20040401  
 EP 1622581 A2 20060208 EP 2004-758928 20040401  
 EP 1622581 B1 20070328  
 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,  
 IE, SI, FI, RO, CY, TR, BG, CZ, EE, HU, PL, SK  
 CN 1798540 A 20060705 CN 2004-80015015 20040401  
 AT 357905 T 20070415 AT 2004-758928 20040401  
 ES 2285492 T3 20071116 ES 2004-4758928 20040401  
 PRIORITY APPLN. INFO.: FR 2003-4022 A 20030401  
 US 2003-468103P P 20030506  
 WO 2004-FR819 W 20040401  
 OTHER SOURCE(S): MARPAT 141:337249  
 REFERENCE COUNT: 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS  
 RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT  
 L4 ANSWER 11 OF 30 CAPLUS COPYRIGHT 2007 ACS on STN  
 ACCESSION NUMBER: 2004:822840 CAPLUS  
 DOCUMENT NUMBER: 141:319508  
 TITLE: Composition for dyeing human keratinic fibers comprising a fluorescent coloring agent and an insoluble conditioning agent  
 INVENTOR(S): Plos, Gregory; Samain, Henri  
 PATENT ASSIGNEE(S): L'oreal, Fr.  
 SOURCE: Eur. Pat. Appl., 25 pp.  
 CODEN: EPXXDW  
 DOCUMENT TYPE: Patent  
 LANGUAGE: French  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 1464328	A1	20041006	EP 2004-290871	20040401
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, PL, SK, HR				
FR 2853228	A1	20041008	FR 2003-4021	20030401
FR 2853228	B1	20060714		
MX 2004PA03092	A	20041027	MX 2004-PA3092	20040401
JP 20040307503	A	20041104	JP 2004-109536	20040401
BR 2004001181	A	20050118	BR 2004-1181	20040401
US 2005076457	A1	20050414	US 2004-814337	20040401
US 7150764	B2	20061219		

JP 2006335762 PRIORITY APPLN. INFO.:	A 20061214	JP 2006-176604 FR 2003-4021 US 2003-468063P JP 2004-109536	20060627 A 20030401 P 20030506 A3 20040401
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OTHER SOURCE(S): MARPAT 141:319508

L4 ANSWER 12 OF 30 CAPLUS COPYRIGHT 2007 ACS on STN  
 ACCESSION NUMBER: 2004:822839 CAPLUS  
 DOCUMENT NUMBER: 141:319507  
 TITLE: Composition for dyeing human keratinic fibers comprising a fluorescent dye and a polyol  
 INVENTOR(S): Plos, Gregory; Gourlaouen, Luc  
 PATENT ASSIGNEE(S): L'oreal, Fr.  
 SOURCE: Eur. Pat. Appl., 27 pp.  
 CODEN: EPXXDW  
 DOCUMENT TYPE: Patent  
 LANGUAGE: French  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 1464327	A1	20041006	EP 2004-290870	20040401
EP 1464327	B1	20061213		
R: AT, BE, CH, IE, SI, LT,	DE, DK, ES, FR, LV, FI, RO, MK,	GB, GR, IT, LI, LU, NL, SE, MC, PT, CY, AL, TR, BG, CZ, EE, HU, PL, SK, HR		
FR 2853236	A1	20041008	FR 2003-4030	20030401
FR 2853236	B1	20071012		
JP 200415522	A	20041111	JP 2004-108982	20040401
US 2005008594	A1	20050113	US 2004-814300	20040401
US 7204860	B2	20070417		
BR 2004001182	A	20050118	BR 2004-1182	20040401
MX 2004PA03104	A	20050331	MX 2004-PA3104	20040401
AT 347874	T	20070115	AT 2004-290870	20040401
ES 2277216	T3	20070701	ES 2004-4290870	20040401
JP 2006273866	A	20061012	JP 2006-176590	20060627
PRIORITY APPLN. INFO.:			FR 2003-4030 US 2003-468086P JP 2004-108982	A 20030401 P 20030506 A3 20040401

OTHER SOURCE(S): MARPAT 141:319507

L4 ANSWER 13 OF 30 CAPLUS COPYRIGHT 2007 ACS on STN  
 ACCESSION NUMBER: 2004:822838 CAPLUS  
 DOCUMENT NUMBER: 141:319506  
 TITLE: Hair coloring composition containing a fluorescent dye and an associative polymer  
 INVENTOR(S): Gourlaouen, Luc; Samain, Henri  
 PATENT ASSIGNEE(S): L'oreal, Fr.  
 SOURCE: Eur. Pat. Appl., 38 pp.  
 CODEN: EPXXDW  
 DOCUMENT TYPE: Patent  
 LANGUAGE: French  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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EP 1464326	A1	20041006	EP 2004-290869	20040401
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, PL, SK, HR				
FR 2853240	A1	20041008	FR 2003-4035	20030401
JP 2004323514	A	20041118	JP 2004-108981	20040401
BR 2004001183	A	20050118	BR 2004-1183	20040401
US 2005031562	A1	20050210	US 2004-814305	20040401
US 7208018	B2	20070424		
MX 2004PA03100	A	20050331	MX 2004-PA3100	20040401
JP 2006249104	A	20060921	JP 2006-176884	20060627
PRIORITY APPLN. INFO.:			FR 2003-4035	A 20030401
			US 2003-468080P	P 20030506
			JP 2004-108981	A3 20040401

OTHER SOURCE(S): MARPAT 141:319506

L4 ANSWER 14 OF 30 CAPLUS COPYRIGHT 2007 ACS on STN  
 ACCESSION NUMBER: 2004:822837 CAPLUS  
 DOCUMENT NUMBER: 141:319505  
 TITLE: Hair dyeing composition containing a fluorescent dye  
       and an acid  
 INVENTOR(S): Plos, Gregory; Gourlaouen, Luc  
 PATENT ASSIGNEE(S): L'oreal, Fr.  
 SOURCE: Eur. Pat. Appl., 30 pp.  
 DOCUMENT TYPE: Patent  
 LANGUAGE: French  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 1464325	A1	20041006	EP 2004-290868	20040401
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, PL, SK, HR				
FR 2853235	A1	20041008	FR 2003-4029	20030401
JP 2004307501	A	20041104	JP 2004-108980	20040401
US 2004256598	A1	20041223	US 2004-814430	20040401
US 7186278	B2	20070306		
BR 2004001187	A	20050118	BR 2004-1187	20040401
MX 2004PA03098	A	20050331	MX 2004-PA3098	20040401
JP 2006298935	A	20061102	JP 2006-176854	20060627
PRIORITY APPLN. INFO.:			FR 2003-4029	A 20030401
			US 2003-468078P	P 20030506
			JP 2004-108980	A3 20040401

OTHER SOURCE(S): MARPAT 141:319505

L4 ANSWER 15 OF 30 CAPLUS COPYRIGHT 2007 ACS on STN  
 ACCESSION NUMBER: 2004:822836 CAPLUS  
 DOCUMENT NUMBER: 141:319504  
 TITLE: Hair dyeing composition for human keratinic material  
       comprising a fluorescent coloring agent and an  
       insoluble polyorganosiloxane conditioning polymer  
 INVENTOR(S): Plos, Gregory; Samain, Henri  
 PATENT ASSIGNEE(S): L'oreal, Fr.  
 SOURCE: Eur. Pat. Appl., 30 pp.  
 DOCUMENT TYPE: Patent

LANGUAGE: French  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 1464324	A1	20041006	EP 2004-290867	20040401
EP 1464324	B1	20061108		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, PL, SK, HR				
FR 2853238	A1	20041008	FR 2003-4033	20030401
MX 2004PA03094	A	20041027	MX 2004-PA3094	20040401
JP 2004037499	A	20041104	JP 2004-108898	20040401
US 200500505369	A1	20050113	US 2004-814334	20040401
US 7147673	B2	20061212		
BR 2004001184	A	20050118	BR 2004-1184	20040401
AT 344656	T	20061115	AT 2004-290867	20040401
ES 2275189	T3	20070601	ES 2004-4290867	20040401
JP 2006282673	A	20061019	JP 2006-175811	20060626
PRIORITY APPLN. INFO.:			FR 2003-4033	A 20030401
			US 2003-468079P	P 20030506
			JP 2004-108898	A3 20040401

OTHER SOURCE(S): MARPAT 141:319504

L4 ANSWER 16 OF 30 CAPLUS COPYRIGHT 2007 ACS on STN  
 ACCESSION NUMBER: 2004:822835 CAPLUS  
 DOCUMENT NUMBER: 141:319503  
 TITLE: Fluorescent dye composition for human keratin fibers  
 INVENTOR(S): Gourlaouen, Luc; Plos, Gregory  
 PATENT ASSIGNEE(S): L'oreal, Fr.  
 SOURCE: Eur. Pat. Appl., 26 pp.  
 DOCUMENT TYPE: Patent  
 LANGUAGE: French  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 1464323	A1	20041006	EP 2004-290865	20040401
EP 1464323	B1	20061213		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, PL, SK, HR				
FR 2853230	A1	20041008	FR 2003-4023	20030401
FR 2853230	B1	20050617		
AT 347922	T	20070115	AT 2004-290865	20040401
PRIORITY APPLN. INFO.:			FR 2003-4023	A 20030401

OTHER SOURCE(S): MARPAT 141:319503

L4 ANSWER 17 OF 30 CAPLUS COPYRIGHT 2007 ACS on STN  
 ACCESSION NUMBER: 2004:822834 CAPLUS  
 DOCUMENT NUMBER: 141:319502  
 TITLE: Use of compositions containing a fluorescent dye and  
 an amphoteric or nonionic surfactant for dyeing human  
 keratinic fibers with a bleaching effect  
 INVENTOR(S): Pourille-Grethen, Chrystel; Plos, Gregory  
 PATENT ASSIGNEE(S): L'oreal, Fr.

SOURCE: Eur. Pat. Appl., 29 pp.  
 DOCUMENT TYPE: Patent  
 LANGUAGE: French  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 1464322	A1	20041006	EP 2004-290864	20040401
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, PL, SK, HR			FR 2003-4034	20030401
FR 2853239	A1	20041008	JP 2004-108896	20040401
JP 2004307497	A	20041104	MX 2004-PA3102	20040401
MX 2004PA03102	A	20041129	US 2004-814338	20040401
US 2005005371	A1	20050113		
US 7198650	B2	20070403		
BR 2004001190	A	20050118	BR 2004-1190	20040401
JP 2006265269	A	20061005	JP 2006-175770	20060626
PRIORITY APPLN. INFO.:			FR 2003-4034	A 20030401
			US 2003-468106P	P 20030506
			JP 2004-108896	A3 20040401

OTHER SOURCE(S): MARPAT 141:319502

L4 ANSWER 18 OF 30 CAPLUS COPYRIGHT 2007 ACS on STN  
 ACCESSION NUMBER: 2004:822833 CAPLUS  
 DOCUMENT NUMBER: 141:319501  
 TITLE: Hair dye composition for keratinic materials comprising a fluorescent dye and an aminosilicone  
 INVENTOR(S): Gourlaouen, Luc; Samain, Henri  
 PATENT ASSIGNEE(S): L'oreal, Fr.  
 SOURCE: Eur. Pat. Appl., 30 pp.  
 DOCUMENT TYPE: Patent  
 LANGUAGE: French  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 1464321	A1	20041006	EP 2004-290863	20040401
EP 1464321	B1	20061206		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, PL, SK, HR			FR 2003-4027	20030401
FR 2853233	A1	20041008		
FR 2853233	B1	20071005		
JP 2004307496	A	20041104	JP 2004-108822	20040401
BR 2004001188	A	20050118	BR 2004-1188	20040401
US 2005031563	A1	20050210	US 2004-814428	20040401
US 2006078517	A9	20060413		
MX 2004PA03101	A	20050331	MX 2004-PA3101	20040401
AT 347350	T	20061215	AT 2004-290863	20040401
ES 2276241	T3	20070616	ES 2004-4290863	20040401
JP 2006273865	A	20061012	JP 2006-175750	20060626
PRIORITY APPLN. INFO.:			FR 2003-4027	A 20030401
			US 2003-468107P	P 20030506
			JP 2004-108822	A3 20040401

OTHER SOURCE(S): MARPAT 141:319501

L4 ANSWER 19 OF 30 CAPLUS COPYRIGHT 2007 ACS on STN  
 ACCESSION NUMBER: 2004:822832 CAPLUS  
 DOCUMENT NUMBER: 141:319500  
 TITLE: Brightening compositions comprising a fluorescent dye and a polymer thickener for human keratinic matter  
 INVENTOR(S): Plos, Gregory; Gourlaouen, Luc  
 PATENT ASSIGNEE(S): L'oreal, Fr.  
 SOURCE: Eur. Pat. Appl., 27 pp.  
 CODEN: EPXXDW  
 DOCUMENT TYPE: Patent  
 LANGUAGE: French  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 1464320	A1	20041006	EP 2004-290862	20040401
R: AT, BE, CH, IE, SI, LT,	DE, DK, ES, FR, LV, FI, RO, MK,	GB, GR, IT, LI, CY, AL, TR, BG,	NL, SE, MC, PT, CZ, EE, HU, PL, SK, HR	
FR 2853234	A1	20041008	FR 2003-4028	20030401
FR 2853234	B1	20071012		
JP 2004307495	A	20041104	JP 2004-108821	20040401
US 2005008593	A1	20050113	US 2004-814236	20040401
US 7250064	B2	20070731		
BR 2004001189	A	20050125	BR 2004-1189	20040401
MX 2004PA03099	A	20050331	MX 2004-PA3099	20040401
PRIORITY APPLN. INFO.:			FR 2003-4028	A 20030401
			US 2003-468108P	P 20030506

OTHER SOURCE(S): MARPAT 141:319500

L4 ANSWER 20 OF 30 CAPLUS COPYRIGHT 2007 ACS on STN  
 ACCESSION NUMBER: 2004:822831 CAPLUS  
 DOCUMENT NUMBER: 141:319499  
 TITLE: Hair dye preparation comprising a fluorescent dye and cationic polymer  
 INVENTOR(S): Plos, Gregory; Samain, Henri  
 PATENT ASSIGNEE(S): L'oreal, Fr.  
 SOURCE: Eur. Pat. Appl., 31 pp.  
 CODEN: EPXXDW  
 DOCUMENT TYPE: Patent  
 LANGUAGE: French  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 1464319	A1	20041006	EP 2004-290860	20040401
EP 1464319	B1	20060802		
R: AT, BE, CH, IE, SI, LT,	DE, DK, ES, FR, LV, FI, RO, MK,	GB, GR, IT, LI, CY, AL, TR, BG,	NL, SE, MC, PT, CZ, EE, HU, PL, SK, HR	
FR 2853232	A1	20041008	FR 2003-4026	20030401
FR 2853232	B1	20050617		
JP 2004307494	A	20041104	JP 2004-108820	20040401
MX 2004PA03091	A	20041129	MX 2004-PA3091	20040401
US 2004258641	A1	20041223	US 2004-814335	20040401

US 7195651	B2	20070327			
BR 2004001185	A	20050118	BR 2004-1185		20040401
AT 334721	T	20060815	AT 2004-290860		20040401
ES 2268588	T3	20070316	ES 2004-4290860		20040401
PRIORITY APPLN. INFO.:			FR 2003-4026	A	20030401
			US 2003-467548P	P	20030505

OTHER SOURCE(S): MARPAT 141:319499

L4 ANSWER 21 OF 30 CAPLUS COPYRIGHT 2007 ACS on STN  
 ACCESSION NUMBER: 2004:822830 CAPLUS  
 DOCUMENT NUMBER: 141:319498  
 TITLE: Process for dyeing human keratinic fibers with a brightening effect, wherein the fibers had undergone a permanent wave treatment and wherein a composition comprising a fluorescent dye is applied  
 INVENTOR(S): Plos, Gregory; Samain, Henri  
 PATENT ASSIGNEE(S): L'oreal, Fr.  
 SOURCE: Eur. Pat. Appl., 21 pp.  
 CODEN: EPXXDW  
 DOCUMENT TYPE: Patent  
 LANGUAGE: French  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 1464318	A1	20041006	EP 2004-290866	20040401
EP 1464318	B1	20061011		
R: AT, BE, CH, DE, DK, ES, FR, IE, SI, LT, LV, FI, RO, MK,	GB, GR, IT, LI, LU, NL, SE, MC, PT, CY, AL, TR, BG, CZ, EE, HU, PL, SK, HR			
FR 2853237	A1	20041008	FR 2003-4031	20030401
FR 2853237	B1	20060714		
JP 2004307498	A	20041104	JP 2004-108897	20040401
US 2005005368	A1	20050113	US 2004-814333	20040401
US 7195650	B2	20070327		
BR 2004001191	A	20050118	BR 2004-1191	20040401
MX 2004PA03096	A	20050331	MX 2004-PA3096	20040401
AT 342042	T	20061115	AT 2004-290866	20040401
ES 2273179	T3	20070501	ES 2004-4290866	20040401
JP 2006249103	A	20060921	JP 2006-175856	20060626
PRIORITY APPLN. INFO.:			FR 2003-4031	A 20030401
			US 2003-468104P	P 20030506
			JP 2004-108897	A3 20040401

OTHER SOURCE(S): MARPAT 141:319498

L4 ANSWER 22 OF 30 CAPLUS COPYRIGHT 2007 ACS on STN  
 ACCESSION NUMBER: 1997:286164 CAPLUS  
 DOCUMENT NUMBER: 126:265147  
 TITLE: 1,8-Naphthylene chain-linked fluorescent cyanine dyes  
 INVENTOR(S): Kato, Takashi; Okazaki, Kyoji  
 PATENT ASSIGNEE(S): Fuji Photo Film Co Ltd, Japan  
 SOURCE: Jpn. Kokai Tokkyo Koho, 19 pp.  
 CODEN: JKXXAF  
 DOCUMENT TYPE: Patent  
 LANGUAGE: Japanese  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 09048923	A	19970218	JP 1996-95838	19960327
PRIORITY APPLN. INFO.:			JP 1995-154136	A 19950530
OTHER SOURCE(S):	MARPAT	126:265147		
L4 ANSWER 23 OF 30	CAPLUS	COPYRIGHT 2007 ACS on STN		
ACCESSION NUMBER:	1992:131150	CAPLUS		
DOCUMENT NUMBER:	116:131150			
TITLE:	Synthesis of some bischromophoric dyes containing a nonabsorbing flexible bridge			
AUTHOR(S):	Mishra, J. K.; Behera, P. K.; Parida, S. K.; Mishra, B. K.			
CORPORATE SOURCE:	Cent. Stud. Surf. Sci. Technol., Sambalpur Univ., Jyoti Vihar, 768 019, India			
SOURCE:	Indian Journal of Chemistry, Section B: Organic Chemistry Including Medicinal Chemistry (1992), 31B(2), 118-22			
DOCUMENT TYPE:	CODEN: IJSBDB; ISSN: 0376-4699			
LANGUAGE:	Journal English			
L4 ANSWER 24 OF 30	CAPLUS	COPYRIGHT 2007 ACS on STN		
ACCESSION NUMBER:	1985:561854	CAPLUS		
DOCUMENT NUMBER:	103:161854			
TITLE:	Reaction of quinaldine with polymethylene glycol bis(p-toluenesulfonates)			
AUTHOR(S):	Mushkalo, I. L.; Sogulyaev, Yu. A.; Tolmachev, A. I.			
CORPORATE SOURCE:	Inst. Org. Khim., Kiev, 252660, USSR			
SOURCE:	Khimiya Geterotsiklicheskikh Soedinenii (1985), (5), 706-7			
DOCUMENT TYPE:	CODEN: KGSSAQ; ISSN: 0453-8234			
LANGUAGE:	Journal Russian			
OTHER SOURCE(S):	CASREACT 103:161854			
L4 ANSWER 25 OF 30	CAPLUS	COPYRIGHT 2007 ACS on STN		
ACCESSION NUMBER:	1979:509008	CAPLUS		
DOCUMENT NUMBER:	91:109008			
ORIGINAL REFERENCE NO.:	91:17599a,17602a			
TITLE:	Methine dyes			
INVENTOR(S):	Degen, Hans Juergen; Feichtmayr, Franz; Grychtol, Klaus			
PATENT ASSIGNEE(S):	BASF A.-G., Fed. Rep. Ger.			
SOURCE:	Ger. Offen., 31 pp.			
DOCUMENT TYPE:	CODEN: GWXXBX			
LANGUAGE:	Patent German			
FAMILY ACC. NUM. COUNT:	1			
PATENT INFORMATION:				
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 2754403	A1	19790613	DE 1977-2754403	19771207
DE 2754403	C2	19870527		
FR 2411219	A1	19790706	FR 1978-33522	19781128

FR 2411219	B1	19830923		
CH 639114	A5	19831031	CH 1978-12364	19781204
JP 54086521	A	19790710	JP 1978-150129	19781206
JP 62049311	B	19871019		
GB 2011457	A	19790711	GB 1978-47324	19781206
GB 2011457	B	19820526		
US 4256458	A	19810317	US 1979-50527	19790621
PRIORITY APPLN. INFO.:			DE 1977-2754403	A 19771207
			US 1978-964148	A3 19781128

L4 ANSWER 26 OF 30 CAPLUS COPYRIGHT 2007 ACS on STN  
 ACCESSION NUMBER: 1972:553892 CAPLUS  
 DOCUMENT NUMBER: 77:153892  
 ORIGINAL REFERENCE NO.: 77:25295a, 25298a  
 TITLE: Polynuclear azaaromatic compounds. III. Derivatives  
       of 1,5-diazaanthracene, 1,8- and 1,5-  
       diazaphenanthrenes, and 1,5-diazanaphthalene  
 AUTHOR(S): El'tsov, A. V.; Nekrasov, S. V.; Smirnov, E. V.  
 CORPORATE SOURCE: Leningr. Tekhnol. Inst. im. Lensoveta, Leningrad, USSR  
 SOURCE: Zhurnal Organicheskoi Khimii (1972), 8(6), 1309-20  
 CODEN: ZORKAE; ISSN: 0514-7492  
 DOCUMENT TYPE: Journal  
 LANGUAGE: Russian

L4 ANSWER 27 OF 30 CAPLUS COPYRIGHT 2007 ACS on STN  
 ACCESSION NUMBER: 1972:516064 CAPLUS  
 DOCUMENT NUMBER: 77:116064  
 ORIGINAL REFERENCE NO.: 77:19131a, 19134a  
 TITLE: Photographic dyes derived from 4,6-diaryl picolinium  
       salts  
 INVENTOR(S): Brooker, Leslie G. S.; Daniel, Daniel S.; Taber,  
                 Robert C.  
 PATENT ASSIGNEE(S): Eastman Kodak Co.  
 SOURCE: U.S., 10 pp.  
 CODEN: USXXAM  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 3639127	A	19720201	US 1970-57831	19700723
CA 981516	A1	19760113	CA 1971-114489	19710601
FR 2103210	A5	19720407	FR 1971-26828	19710722
GB 1366506	A	19740911	GB 1971-34419	19710722
PRIORITY APPLN. INFO.:			US 1970-57831	A 19700723

L4 ANSWER 28 OF 30 CAPLUS COPYRIGHT 2007 ACS on STN  
 ACCESSION NUMBER: 1972:436363 CAPLUS  
 DOCUMENT NUMBER: 77:36363  
 ORIGINAL REFERENCE NO.: 77:6041a, 6044a  
 TITLE: Synthesis and spectra of bisquaternary quinaldinium  
       salts  
 AUTHOR(S): Chernyuk, I. N.; Rogovik, L. I.; Pilyugin, G. T.  
 CORPORATE SOURCE: USSR  
 SOURCE: Zhurnal Organicheskoi Khimii (1972), 8(2), 397-400

DOCUMENT TYPE: CAPLUS  
 LANGUAGE: Russian

CODEN: ZORKAE; ISSN: 0514-7492  
 Journal

L4 ANSWER 29 OF 30 CAPLUS COPYRIGHT 2007 ACS on STN  
 ACCESSION NUMBER: 1971:518250 CAPLUS  
 DOCUMENT NUMBER: 75:118250  
 ORIGINAL REFERENCE NO.: 75:18669a,18672a  
 TITLE: Polynuclear azaaromatic compounds. II. Derivatives  
 of diazachrysenes  
 AUTHOR(S): El'tsov, A. V.; Nekrasov, S. V.  
 CORPORATE SOURCE: Leningr. Tekhnol. Inst. im. Lensoveta, Leningrad, USSR  
 SOURCE: Zhurnal Organicheskoi Khimii (1971), 7(7), 1525-33  
 CODEN: ZORKAE; ISSN: 0514-7492  
 DOCUMENT TYPE: Journal  
 LANGUAGE: Russian

L4 ANSWER 30 OF 30 CAPLUS COPYRIGHT 2007 ACS on STN  
 ACCESSION NUMBER: 1950:24498 CAPLUS  
 DOCUMENT NUMBER: 44:24498  
 ORIGINAL REFERENCE NO.: 44:4809f-i,4810a-f  
 TITLE: Photographic sensitizing dyes  
 PATENT ASSIGNEE(S): E. I. Du Pont de Nemours & Co.  
 DOCUMENT TYPE: Patent  
 LANGUAGE: Unavailable  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
GB 622223		19490428	GB 1946-12650	19460426

=> d 14 abs hitstr 22-30

L4 ANSWER 22 OF 30 CAPLUS COPYRIGHT 2007 ACS on STN  
 GI

\* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT \*

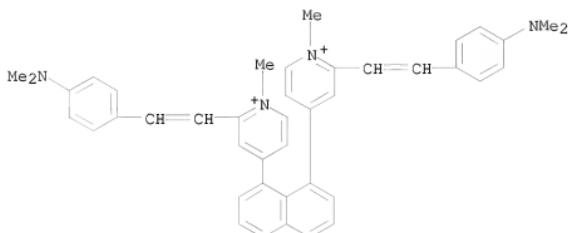
AB The title dyes have the general formula I ( $m, n = 0-3$ ; R1-12 = H or substituent; R13, R14 = alkyl; L1-6 = methine chain; E1, E2 = auxiliary chromophore; X1 = counter ion). II was prepared in 64% yield from 4,4'-(1,8-naphthylene)bis(1,2-dimethylpyridinium iodide) and N-methyl-2-(methylthio)benzothiazolium p-toluenesulfonate.

IT 188821-11-6P  
 RL: IMF (Industrial manufacture); PRP (Properties); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)  
 (naphthylene chain-linked fluorescent cyanine dyes)

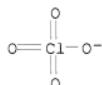
RN 188821-11-6 CAPLUS

CN Pyridinium, 4,4'-(1,8-naphthalenediyl)bis[2-[2-[4-(dimethylamino)phenylethenyl]-1-methyl-, diperchlorate (9CI) (CA INDEX NAME)

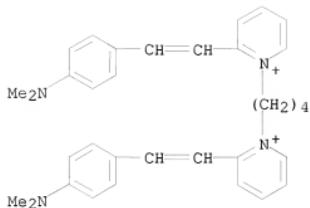
CM 1

CRN 188821-10-5  
CMF C42 H42 N4

CM 2

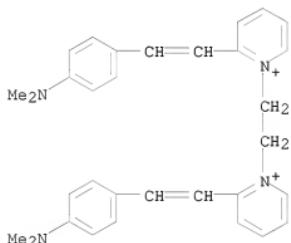
CRN 14797-73-0  
CMF Cl O4

- L4 ANSWER 23 OF 30 CAPLUS COPYRIGHT 2007 ACS on STN  
 AB Bis-chromophoric dyes having nonabsorbing flexible bridges have been synthesized by the condensation of 1,1'-alkylenebis( $\alpha/\gamma$ -picolinium bromides) with benzaldehyde derivs. or cinnamaldehyde.  
 IT 71068-06-9P 139537-25-0P 139537-26-1P  
 139537-27-2P  
 RL: MSC (Miscellaneous); SPN (Synthetic preparation); PREP (Preparation)  
 (dyes, preparation and absorption spectra of)  
 RN 71068-06-9 CAPLUS  
 CN Pyridinium, 1,1'-(1,4-butanediyl)bis[2-[2-[4-(dimethylamino)phenyl]ethenyl]  
 -, dibromide (9CI) (CA INDEX NAME)



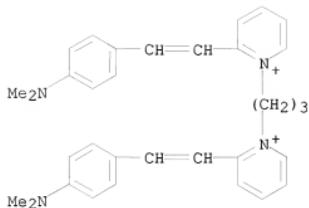
●2 Br<sup>-</sup>

RN 139537-25-0 CAPLUS  
 CN Pyridinium, 1,1'-(1,2-ethanediyl)bis[2-[2-[4-(dimethylamino)phenyl]ethenyl]-, dibromide (9CI) (CA INDEX NAME)



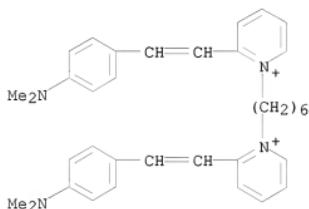
●2 Br<sup>-</sup>

RN 139537-26-1 CAPLUS  
 CN Pyridinium, 1,1'-(1,3-propanediyl)bis[2-[2-[4-(dimethylamino)phenyl]ethenyl]-, dibromide (9CI) (CA INDEX NAME)



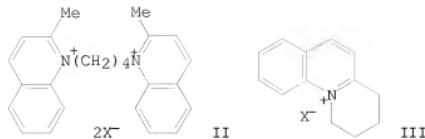
●2 Br<sup>-</sup>

RN 139537-27-2 CAPLUS  
 CN Pyridinium, 1,1'-(1,6-hexanediyil)bis[2-[2-[4-(dimethylamino)phenyl]ethenyl]-, dibromide (9CI) (CA INDEX NAME)



●2 Br<sup>-</sup>

L4 ANSWER 24 OF 30 CAPLUS COPYRIGHT 2007 ACS on STN  
 GI



AB Heating quinaldine [91-63-4] with p-MeC<sub>6</sub>H<sub>4</sub>SO<sub>3</sub>(CH<sub>2</sub>)<sub>n</sub>O<sub>3</sub>C<sub>6</sub>H<sub>4</sub>Me-p (I, n = 4) [4724-56-5] gave II (X = p-MeC<sub>6</sub>H<sub>4</sub>SO<sub>3</sub>) [98570-07-1], whereas heating quinaldine with I (n = 3) [5469-66-9] gave III (X = p-MeC<sub>6</sub>H<sub>4</sub>SO<sub>3</sub>) [98570-08-2]. Condensation of II (X = p-MeC<sub>6</sub>H<sub>4</sub>SO<sub>3</sub>) or III (X = ClO<sub>4</sub>) [34624-17-4] with p-(dimethylamino)benzaldehyde [100-10-7] gave styryl dyes.

IT 98570-03-7P

RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation) (preparation and spectra of)

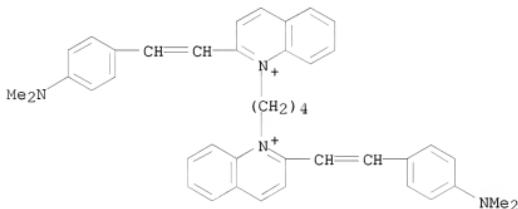
RN 98570-03-7 CAPLUS

CN Quinolinium, 1,1'-(1,4-butanediyl)bis[2-[2-[4-(dimethylamino)phenyl]ethenyl]-, salt with 4-methylbenzenesulfonic acid (1:2) (9CI) (CA INDEX NAME)

CM 1

CRN 98570-02-6

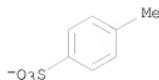
CMF C42 H44 N4



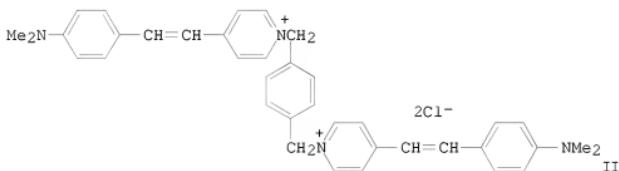
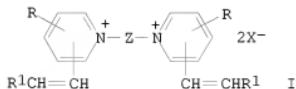
CM 2

CRN 16722-51-3

CMF C7 H7 O3 S



L4 ANSWER 25 OF 30 CAPLUS COPYRIGHT 2007 ACS on STN  
GI



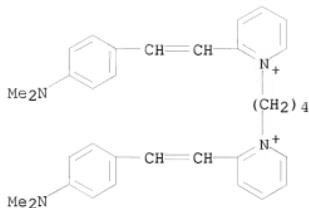
AB Substantive yellow to bluish red paper dyes having the general structure I are prepared, where R = H, Me, or Et, R<sub>1</sub> = aryl or heteroaryl, Z = alkylene or arylene dimethylene, X<sup>-</sup> = anion, and the methine groups are in  $\alpha$ - or  $\gamma$ -position. Thus, reaction of p-(dimethylamino)benzaldehyde [100-10-7] with 1,1'-(p-xylylene)bis(4-methylpyridinium chloride) [71068-00-3] in refluxing HOAc gave II [71068-16-1], a red powder which dyed bleached sulfite pulp red shades. Other I were similarly prepared

IT 71068-06-9P

RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)  
(manufacture of, as dye for paper)

RN 71068-06-9 CAPLUS

CN Pyridinium, 1,1'-(1,4-butanediyl)bis[2-[2-[4-(dimethylamino)phenyl]ethenyl]<sup>-</sup>, dibromide (9CI) (CA INDEX NAME)

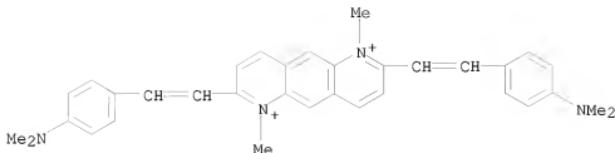


●2 Br<sup>-</sup>

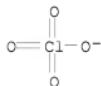
- L4 ANSWER 26 OF 30 CAPLUS COPYRIGHT 2007 ACS on STN  
 AB 2,6-Dimethyl-1,5-diazaanthracene [36749-62-9], 2,7-dimethyl-1,8-diazaphenanthrene [36749-63-0], 2,6-dimethyl-1,5-diazaphenanthrene [36749-64-1], and 2,6-dimethyl-1,5-diazaphthalene [36749-65-2] were prepared by reaction of p-C<sub>6</sub>H<sub>4</sub>(NH<sub>2</sub>)<sub>2</sub> with pyruvic acid followed by decarboxylation, p-C<sub>6</sub>H<sub>4</sub>(NH<sub>2</sub>)<sub>2</sub> with crotonaldehyde, m-C<sub>6</sub>H<sub>4</sub>(NH<sub>2</sub>)<sub>2</sub> with paraaldehyde, and 2-methyl-5-aminopyridine with crotonaldehyde, resp., and were N-methylated to give monoazonia and diazonia salts. The condensation of these salts with 4-Me<sub>2</sub>NCH<sub>2</sub>CHO in Ac<sub>2</sub>O solution gave 6-(p-dimethylaminostyryl)-2,5-dimethyl-1-aza-5-azonianthracene perchlorate [I, R = CHC<sub>6</sub>H<sub>4</sub>NMe<sub>2</sub>-p (Q)] [36749-66-3], 2,6-bis(p-dimethylaminostyryl)-1,5-dimethyl-1,5-diazonianthracene diperchlorate [II, R = Q] [36749-67-4], 7-(p-dimethylaminostyryl)-2,8-dimethyl-1-aza-8-azoniaphenanthrene perchlorate [III, R = Q] [36749-68-5], 2,7-bis(p-dimethylaminostyryl)-1,8-dimethyl-1,8-diazoniaphenanthrene diperchlorate [36749-69-6], 6-(p-dimethylaminostyryl)-2,5-dimethyl-1-aza-5-azonianaphthalene iodide [IV, R = Q] [36749-70-9], and 2,6-bis(p-dimethylaminostyryl)-1,5-dimethyl-1,5-diazonianaphthalene diperchlorate [36749-71-0]. Similarly, I-IV with R = NC<sub>6</sub>H<sub>4</sub>NMe<sub>2</sub>-p were prepared by condensing the monoazonia or diazonia salts with p-nitrosodimethylaniline. The uv and ir spectra of these compds. show the effects of the length of the conjugated chromophore.  
 IT 36749-67-4P 36749-69-6P  
 RL: SPN (Synthetic preparation); PREP (Preparation)  
 (preparation of)  
 RN 36749-67-4 CAPLUS  
 CN Pyrido[2,3-g]quinoquinium, 2,7-bis[2-[4-(dimethylamino)phenyl]ethenyl]-1,6-dimethyl-, diperchlorate (9CI) (CA INDEX NAME)

CM 1

CRN 47801-45-6  
 CMF C34 H36 N4

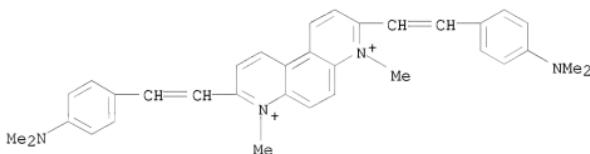


CM 2

CRN 14797-73-0  
CMF C1 O4

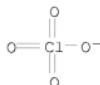
RN 36749-69-6 CAPLUS  
 CN 4,7-Phenanthrolinium, 3,8-bis[2-[4-(dimethylamino)phenyl]ethenyl]-4,7-dimethyl-, diperchlorate (9CI) (CA INDEX NAME)

CM 1

CRN 47799-32-6  
CMF C34 H36 N4

CM 2

CRN 14797-73-0  
CMF C1 O4



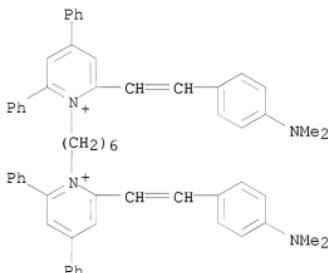
L4 ANSWER 27 OF 30 CAPLUS COPYRIGHT 2007 ACS on STN  
 AB Forty-six cyanine, styryl, and merocyanine dyes, some of which are sensitizers and others desensitizers for Ag halide emulsions, were prepared from 2-picolinium salts (I, Z = N; R = Ph, p-MeOC<sub>6</sub>H<sub>4</sub>, p-C<sub>1</sub>C<sub>6</sub>H<sub>4</sub>, 3,4-C<sub>12</sub>C<sub>6</sub>H<sub>3</sub>; Y = R, Et<sub>2</sub>NCH<sub>2</sub>CH<sub>2</sub>, p-Et<sub>2</sub>NC<sub>6</sub>H<sub>4</sub>, p-C<sub>1</sub>CGH<sub>4</sub>, HOCH<sub>2</sub>CH<sub>2</sub>, Et<sub>2</sub>NCH<sub>2</sub>CH<sub>2</sub>CH<sub>2</sub>, MeNH, p-PhN:NC<sub>6</sub>H<sub>4</sub>). I (Z = N) were prep'd from I (Z = O) and the appropriate amines. For example, a mixt of I (Z = N; R = Y = Ph), 3-O<sub>2</sub>NC<sub>6</sub>H<sub>4</sub>CHO, and piperidine in EtOH was refluxed for 1 hr to give styryl dye II [36139-45-4]. Other typical dyes included cyanine dye III [36079-54-6] and merocyanine dye IV [36139-46-5].

IT 38128-33-5P

RL: IMF (Industrial manufacture); PREP (Preparation)  
 (preparation of)

RN 38128-33-5 CAPLUS

CN Pyridinium, 1,1'-(1,6-hexanediyil)bis[2-[2-[4-(dimethylamino)phenyl]ethenyl]-4,6-diphenyl-, diiodide (9CI) (CA INDEX NAME)



● 2 I<sup>-</sup>

L4 ANSWER 28 OF 30 CAPLUS COPYRIGHT 2007 ACS on STN

AB Reaction of 4,4'-bis(benzylamino)biphenyl with H<sub>2</sub>C:CHOAc in HCl solution and treatment with NaClO<sub>4</sub> gave 1,1'-dibenzyl-6,6'-bisquinaldinium perchlorate (I) [35108-81-7] the uv spectrum of which has a maximum at a longer wavelength ( $\lambda$ ) than the maximum of 1-benzylquinoldinium perchlorate due to the conjugation of 2 quinaldinium rings. I has 2 active Me groups and it can be converted to quinaldine dyes, such as

6,6'-bis[(1-benzylquinolyl-2)-(1"-phenyl-quinolyl-2")trimethinecyanine] diperchlorate (II) [35210-43-6], 6,6'-bis[(1-benzylquinolyl-2)-(1"-phenyl-quinolyl-4")trimethinecyanine] diperchlorate [35210-44-7], or 6,6'-bis[(1-benzylquinolyl-2)-(3"-ethylbenzothiazolyl-2")trimethinecyanine] diperchlorate [35210-45-8].

IT 36840-77-4P

RL: SPN (Synthetic preparation); PREP (Preparation)  
(preparation of)

RN 36840-77-4 CAPLUS

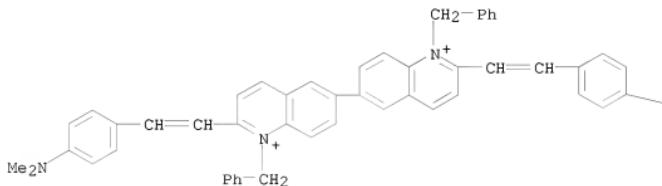
CN 6,6'-Biquinolinium, 2,2'-bis[2-[4-(dimethylamino)phenyl]ethenyl]-1,1'-bis(phenylmethyl)-, diperchlorate (9CI) (CA INDEX NAME)

CM 1

CRN 47893-52-7

CMF C52 H48 N4

PAGE 1-A



PAGE 1-B

~~~ NMe<sub>2</sub>

CM 2

CRN 14797-73-0

CMF C1 O4

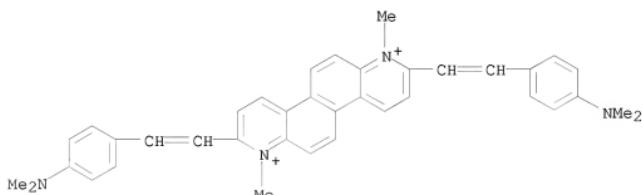


L4 ANSWER 29 OF 30 CAPLUS COPYRIGHT 2007 ACS on STN  
 AB Comparison of the pKa values for 2,8-dimethyl-1,7- and 3,9-dimethyl-4,10-diazachrysene, 1,2,8-trimethyl-7-aza-1-azoniachrysene perchlorate, and quinaldine showed small interactions between the pyridine and pyridinium nuclei across the 2 benzene nuclei. The corresponding methylated bis(quaternary salts) added Grignard reagents ortho to the N atoms, and gave the corresponding bis(styryls) and bis(azastyryls) with p-Me<sub>2</sub>NC<sub>6</sub>H<sub>4</sub>CHO and p-Me<sub>2</sub>NC<sub>6</sub>H<sub>4</sub>NO, resp.  
 IT RL: SPN (Synthetic preparation); PREP (Preparation)  
     (preparation of)  
 RN 33657-22-6 CAPLUS  
 CN Quino[6,5-f]quinolinium, 2,8-bis[p-(dimethylamino)styryl]-1,7-dimethyl-, diperchlorate (8CI) (CA INDEX NAME)

CM 1

CRN 47832-42-8

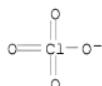
CMF C38 H38 N4



CM 2

CRN 14797-73-0

CMF Cl O4

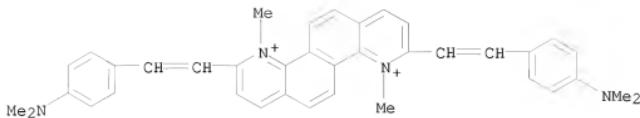


RN 33697-38-0 CAPLUS  
 CN Quino[8,7-h]quinolinium, 3,9-bis[p-(dimethylamino)styryl]-4,10-dimethyl-, diperchlorate (8CI) (CA INDEX NAME)

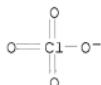
CM 1

CRN 47832-28-0

CMF C38 H38 N4



CM 2

CRN 14797-73-0  
CMF C1 O4

L4 ANSWER 30 OF 30 CAPLUS COPYRIGHT 2007 ACS on STN  
 GI For diagram(s), see printed CA Issue.

AB Styryl dyes containing 2 or more styryl dye nuclei per mol. are prepared by condensing (1) a p-tertiary-amino aromatic aldehyde containing at least 2 reactive aldehyde groups with (2) a quaternary salt of heterocyclic N compound containing at least 1 reactive Me group in the  $\alpha$ -or  $\gamma$ -position to a quaternary N atom. The condensation is effected in weakly basic solution particularly in the presence of amines such as EtNH<sub>2</sub>, piperidine, which have a dissociation constant greater than pyridine. 1,4-Bis(p-formylphenyl)piperazine (I) 1 g. and 2.08 g. 2-methylbenzothiazole ethiodide (II) were dissolved in 50 cc. boiling alc., 3 drops piperidine added, the mixture refluxed for 1 hr., chilled in an ice bath, and filtered to give the red dye, N,N'-diethylenebis(2-p-aminostyrylbenzothiazole ethiodide). I and 2-methylbenzoselenazole ethiodide (III) give N,N'-diethylenebis(2-p-aminostyrylbenzoselenazole ethiodide). N,N'-Methylenebis(p-methylaminobenzaldehyde) (IV) 1 g. and 2.5 g. III in 25 cc. EtOH with 3 drops piperidine, after refluxing gave a deep purple dye, N,N'-methylenebis(p-methylaminostyrylbenzoselenazole ethiodide). IV and II give N,N'-methylenebis(p-methylaminostyrylbenzothiazole ethiodide). (p-OHCC<sub>6</sub>H<sub>4</sub>)<sub>2</sub>NMe and II gave methylbis(p-styrylbenzothiazole ethiodide)amine, a deep red powder. N,N'-Ethylenebis(p-ethylaminobenzaldehyde) and II give N,N'-ethylenebis(p-ethylaminostyrylbenzothiazole ethiodide). Tris(p-formylphenyl)amine and II give black crystals of tris[p-(2-benzylidenemethyl)benzothiazole ethiodide]amine. The corresponding Se compound is a purple dye. N,N'-Ethylenebis(p-ethylaminobenzaldehyde) and hexamethylenebis(2-methylbenzothiazole) dibromide give a polymeric dye of the structure (V). In Brit. 622,272, similar styryl dyes are obtained by condensing 1 mol. of an alkylenebis-(quaternary salt) of a heterocyclic N compound having 2 heterocyclic N nuclei linked through the quaternary N atoms by an alkylene group and having a reactive Me group in the  $\alpha$ -or  $\gamma$ -position

to each heterocyclic N atom with 2 mols. of a p-tertiary-amino aromatic aldehyde containing a single reactive aldehyde group. Hexamethylenebis(2-methylbenzothiazole) dibromide 2 (prepared from hexamethylene dibromide 9.8 and 2-methylbenzothiazole 14 parts) and 1.1 parts p-Me<sub>2</sub>NC<sub>6</sub>H<sub>4</sub>CHO in 50 cc. alc. was heated to boiling, 2 drops piperidine added, and refluxing continued for 1 hr. to give hexamethylenebis(2-p-dimethylaminostyrylbenzothiazole) dibromide, a deep red dye. In Brit. 622,273, 4 mols. of a p-tertiary-amino aromatic aldehyde containing a single aldehyde group are condensed with 1 mol. of an alkylenebis(quaternary salt) of a heterocyclic N compound having 2 heterocyclic N nuclei linked through the quaternary N atoms by an alkylene group and having at least 2 reactive Me groups in  $\alpha$ -or  $\gamma$ -position to each quaternary N atom. Hexamethylenebis(2,6-lutidine)dibromide and p-Me<sub>2</sub>NC<sub>6</sub>H<sub>4</sub>CHO give a deep red dye of the formula [2,6-(p-Me<sub>2</sub>NC<sub>6</sub>H<sub>4</sub>CH:CH)2C<sub>5</sub>H<sub>3</sub>N(Br)CH<sub>2</sub>CH<sub>2</sub>CH<sub>2</sub>]<sub>2</sub>. Trimethylenebis (2,4-lutidine) dibromide and p-Me<sub>2</sub>NC<sub>6</sub>H<sub>4</sub>CHO give [2,4-(p-Me<sub>2</sub>NC<sub>6</sub>H<sub>4</sub>CH:CH)2C<sub>5</sub>H<sub>3</sub>N(Br)CH<sub>2</sub>]<sub>2</sub>CH<sub>2</sub>. Cf. C.A. 43, 2232i.

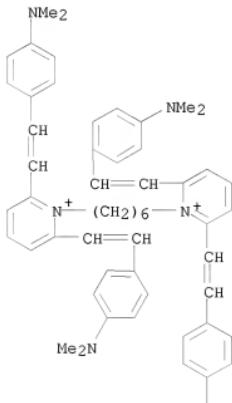
IT 856962-32-8P, Pyridinium, 1,1'-hexamethylenebis[2,6-bis(p-dimethylaminostyryl)- bromide] 856965-40-7P, Pyridinium, 1,1'-trimethylenebis[2,4-bis(p-dimethylaminostyryl)- bromide]

RL: PREP (Preparation)  
(preparation of)

RN 856962-32-8 CAPLUS

CN Pyridinium, 1,1'-hexamethylenebis[2,6-bis(p-dimethylaminostyryl)- bromide] (5CI) (CA INDEX NAME)

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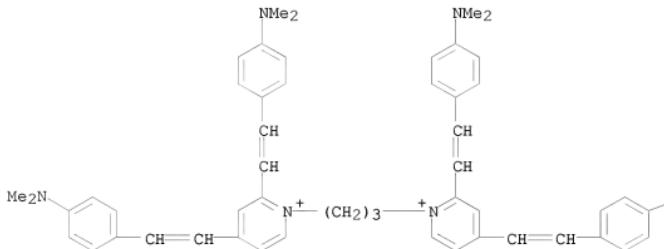


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● 2 Br<sup>-</sup>

RN 856965-40-7 CAPLUS  
 CN Pyridinium, 1,1'-trimethylenebis[2,4-bis(p-dimethylaminostyryl)- bromide]  
 (SCI) (CA INDEX NAME)

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● 2 Br<sup>-</sup>

PAGE 1-B

$$\begin{array}{c} | \\ \text{NMe}_2 \end{array}$$

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11/28/2007

=> log hold  
COST IN U.S. DOLLARS  
FULL ESTIMATED COST

|                     | SINCE FILE | TOTAL   |
|---------------------|------------|---------|
|                     | ENTRY      | SESSION |
| FULL ESTIMATED COST | 115.98     | 377.84  |

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)  
CA SUBSCRIBER PRICE

|                     | SINCE FILE | TOTAL   |
|---------------------|------------|---------|
|                     | ENTRY      | SESSION |
| CA SUBSCRIBER PRICE | -10.14     | -10.14  |

SESSION WILL BE HELD FOR 120 MINUTES  
STN INTERNATIONAL SESSION SUSPENDED AT 09:29:57 ON 28 NOV 2007